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MODEL : HCS6000A(LST-4600A)

SERVICE MANUAL



HD/SD PERSONAL VIDEO RECORDER & RECEIVER WITH GEMSTAR **SERVICE MANUAL**

MODEL : HCS6000A(LST-4600A)

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS"
IN THIS MANUAL.

SECTION 1

SUMMARY

CONTENTS

INTRODUCTION	1-2
PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS.....	1-3
SERVICING PRECAUTIONS.....	1-4
SPECIFICATIONS.....	1-5
LOCATION OF CUSTOMER CONTROLS	1-7

INTRODUCTION

- Digital/Analog broadcasting recorder/receiver [HD/SD PERSONAL VIDEO RECORDER & RECEIVER] or PVR(Personal Video Recorder)-STB(Set-Top Box) receives the ground wave HD Digital broadcasting program /Analog NTSC or Cable broadcasting program and saves a video and audio signal at a HDD with a specific form or offers additional related services..

- Configuration

The PCU is the IBM PPC405GP of the PowerPC series supporting PCI Bus I/F for PVR, and the tuner receives a digital ground wave and transfers it as a TP signal, transmitting the NTSC signal of the ground wave/the cable signal and transferring the audio signal to the SIF.

The MPEG Decoder uses the HD-II supporting MP@HL built with the AC-3 Decoder.

The PVR section transforms the TP data of a digital TV signal and an analog audio/video signal into the TP by using the MPEG-II Encoder and saves only the necessary data to the HDD via the IDE I/F Chip.

Overall configuration

- System section

CPU, Main Memory, MPEG-II Decoder, Flash Memory, and System CPLD.

- MPEG Video/Audio Decoder section

HD-2, Memory, PLL IC, Audio Processor, Audio ADC, and so on.

- PVR section

TPN-II performing PCI I/F and TP De-Mux, Memory, MPEG-II Encoder, IDE I/F Chip, and 120GB HDD.

- Video/Audio input section

CVBS Decoder, and Audio processor

- 1394 section

1394 1-Chip supporting D-VHS and MV Camcoder.

- Tuner

It can receive a signal from ATSC/NTSC/Cable, and send a signal from the ATSC as TP, an analog video signal as NTSC, and an audio signal as SIF.

- Front section

It is located at the front receiving various key inputs from users and displaying the status of a set-top box at the VFD.

- Power section

It supplies a DC power to Main Digital Board, Front Board, and HDD with the input of AC 110V.

PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-video service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

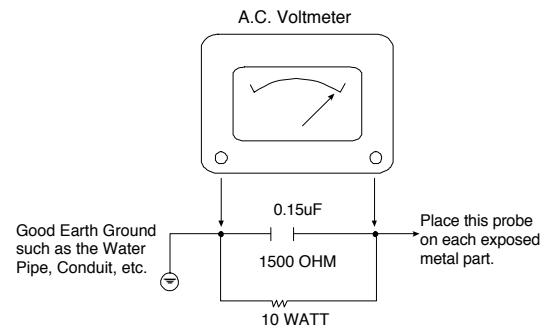
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a high current device or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

SERVICING PRECAUTIONS

CAUTION: Before servicing the HD/SD PERSONAL VIDEO RECORDER & RECEIVER WITH GEMSTAR covered by this service data and its supplements and addends, read and follow the SAFETY PRECAUTIONS. NOTE: if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions. Remember Safety First:

General Servicing Precautions

1. Always unplug the HD/SD PERSONAL VIDEO RECORDER & RECEIVER WITH GEMSTAR AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnecting or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.
Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this HD/SD PERSONAL VIDEO RECORDER & RECEIVER WITH GEMSTAR or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this HD/SD PERSONAL VIDEO RECORDER & RECEIVER WITH GEMSTAR and / or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect the test instrument ground lead to an appropriate ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

Note 1: Accessible Conductive Parts include Metal panels, Input terminals, Earphone jacks, etc.

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 static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, 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" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate an electrical charge 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. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

SPECIFICATIONS

System Specifications

- ◆ **CPU [PPC405GP Rev E]**
 - PowerPC405GP, 32-bit, 200MHz RISC Processor
 - I Cache 16K, D Cache 8K
 - SDRAM Controller(100MHz speed)
 - External Peripheral Bus(up to 8 device)
 - PCI 2.2 I/F(32-bit, 33MHz)]
 - DMA, Interrupt Controller, Serial Port, GPIO, I²C
- ◆ **System Memory**
 - Main Memory : 32MB(K4S281632 x2)
 - Flash Memory : 8MB(MEM29DL323x2)
 - NVRAM : EEPROM(32KB, 105 Read/Write)
 - Probe ROM : 512KB (Am29LV040)
- ◆ **MPEG 2 A/V Decoder [LGDT1102A]**
 - 1 HD(MP@HL) or 4 SD(MP@ML)
 - ATSC all format Decoding
 - Memory : SDRAM 32MB(K4S641632 x4)
 - Graphics
 - 2D Graphics
 - HD Resolution(max. 1080x1920 x16-bit)
 - BitBLT/Rendering Cursor Support(by H/W)
 - Alpha Blending(6-bit level) Support
 - Audio Decoder
 - AC-3 Decoding
 - MPEG Audio Layer 1, 2 Decoding
 - SPDIF Output
- ◆ **PLL IC [LGDT1901A]**
 - HD-2 Video Clock Generation
 - 27MHz VCXO input & Control Signals
- ◆ **System CPLD [EPM7256AETC]**
 - HD-2 I/F Signal
 - Address Decode
 - GPIO
- ◆ **Audio Processor [MSP4450]**
 - SIF Processing
 - Audio Input Selection
 - ADC/DAC
 - Volume control
- ◆ **Video Decoder [VPX3226F]**
 - CVBS Decoding
 - Video Processing
 - 656 Data Output
 - VBI/CC support
- ◆ **DVI Transmitter [Sil170]**
 - DVI output
 - HDCP Support
- ◆ **I²C Controller [PCF8584]**
 - Tuner(ATSC/NTSC/Cable) I/F
 - Gemstar I/F
 - Front MiCOM I/F
- ◆ **TPN-II**
 - TP Processing for PVR
 - PCI I/F
 - SDRAM I/F 16MB(K4S641632)
 - PVR Function
- ◆ **MPEG-2 Encoder [BCM7040]**
 - MPEG-2 Encoding (MP@ML)
 - 656/I2S Input, TP output
 - SDRAM I/F 16MB(K4S643232)
 - PCI I/F
- ◆ **E-IDE Controller [ARS0303D]**
 - PCI I/F
 - E-IDE Controller
- ◆ **ATSC/NTSC/CableTuner[TDVL-H100P]**
 - AT/NT/Cable NIM Tuner
 - I²C I/F, TP/CVBS/SIF Out
- ◆ **Miscellaneous**
 - RS-232C
 - RF Switch
 - MiCOM(Timer, Gemstar Tuning)
 - Gemstar I/F : Video Input, I²C
- ◆ **IEEE-1394[TSB43CA42]**
 - 1394 TP In/Out
 - Link&PHY(1-Chip)
- ◆ **MUX CPLD [EPM7256AETC]**
 - 1394 TP In/Out
 - Encoder TP, VSB TP, TPN-II TP In/Out
- ◆ **Gemstar Board**
 - GS501 : Gemstar Processor
 - GS502 : AD Converter
 - G-Link
- ◆ **Power Board**
 - Input: AC120V/60Hz
 - Output
 - Main Board : 9V,5V,3.3V,L_5V,L_33V
 - Front Board : -28V,-24V,-21.5V
 - HDD : 12V, 5V
- ◆ **HDD**
 - 120GB
 - Ultra DMA-100
- ◆ **Front Panel**
 - I²C I/F, Power On/Off
 - VFD Display
- ◆ **Remote Controller**
 - Basic TV
 - PVR Function

In/out Connector

◆ Input

- Antenna In : Terrestrial [F Connector]
- Antenna In : Cable [F Connector]
- CVBS Video/Audio-1 [RCA Jack, 3EA]
- CVBS Video/Audio-1 [RCA Jack, 3EA]

◆ Output

- Video Out
 - Component Out : YPbPr [RCA Jack, 3EA]
 - Composite Out : CVB S-1 [RCA Jack, 1EA]
 - S-Video Out [Mini DIN Jack, 1EA]
- Composite Out : CVBS-2 [RCA Jack, 1EA]
- RGB Out : VGA [D-SUB 15-P, 1EA]
- DVI Out
- Audio Out
 - Stereo Out -1 [RCA Jack, 2EA]
 - Stereo Out-2 [RCA Jack, 2EA]
 - SPDIF Out : Photo Link
- Serial Port
- IEEE-1394 Port [1394 2EA]

◆ G-Link

- S/W Up-grade
- IR Blaster

Set-Top Box Size

- ◆ 430(W) x 69(H) x 297(D) [Unit: mm]

Remote Controller Size

- ◆ 55(W) x 240(H) x 35(D) [Unit: mm]

Power

◆ Input

- AC120V/60Hz

◆ Output

- Main Board : 9V,5V,3.3V,L_5V,L_33V
- Front Board : -28V,-24V,-21.5V
- HDD : 12V, 5V

◆ Power Consumption : 35W

Board Size

◆ Main Board Size

- 213(D) x317(W) with Dummy[Unit : mm]
- 170(D) x317(W) [Unit : mm]

◆ Gemstar Board Size

- 130(D) x48(W) [Unit: mm]

◆ Power Board Size

- 247(D) x 93(W) [Unit: mm]

◆ Front Panel Board Size

- 50(D) x 280(W) [Unit: mm]

SECTION 2
CABINET & MAIN CHASSIS

CONTENTS

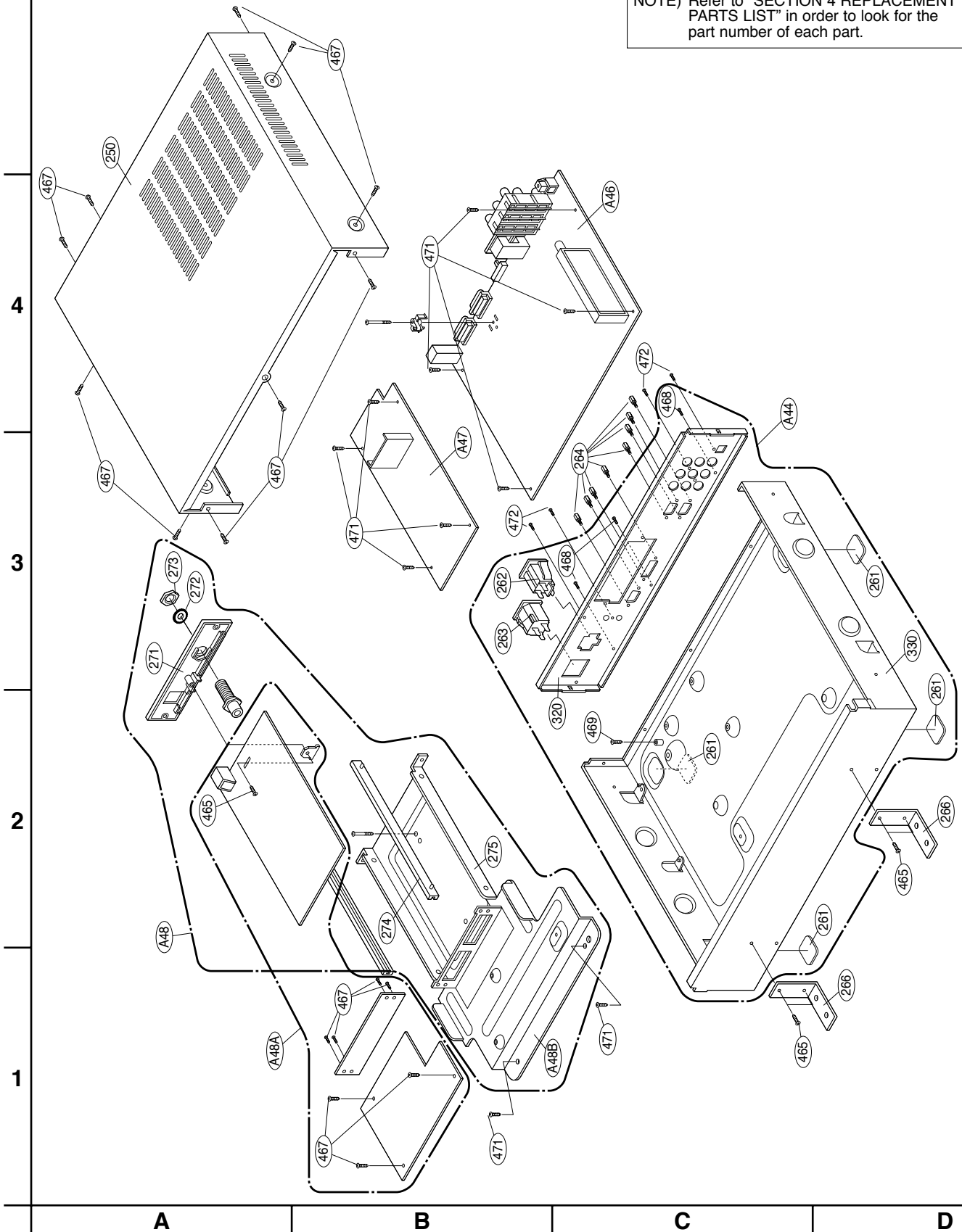
EXPLODED VIEWS2-2

- 1. Cabinet and Main Frame Section2-2**
- 2. Packing Accessory Section2-3**

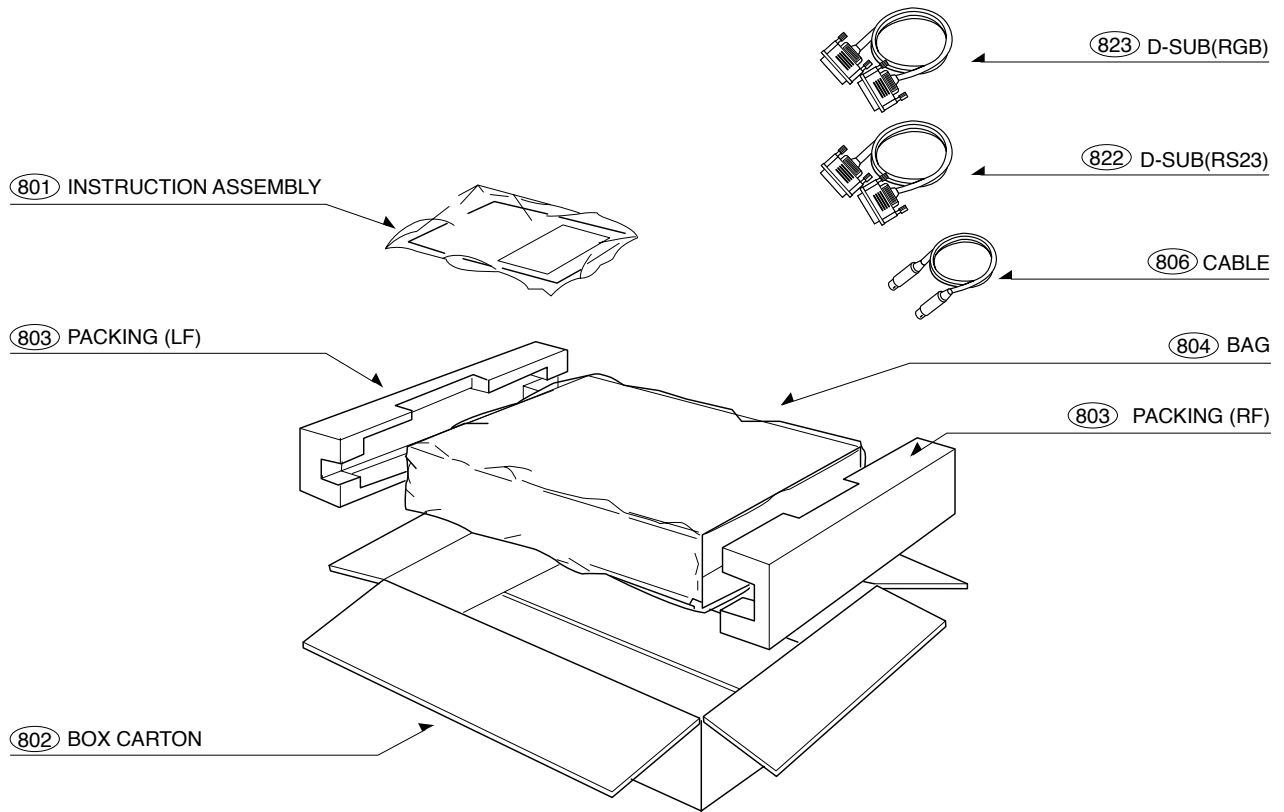
EXPLODED VIEWS

1. Cabinet and Main Frame Section

NOTE) Refer to "SECTION 4 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



2. Packing Accessory Section

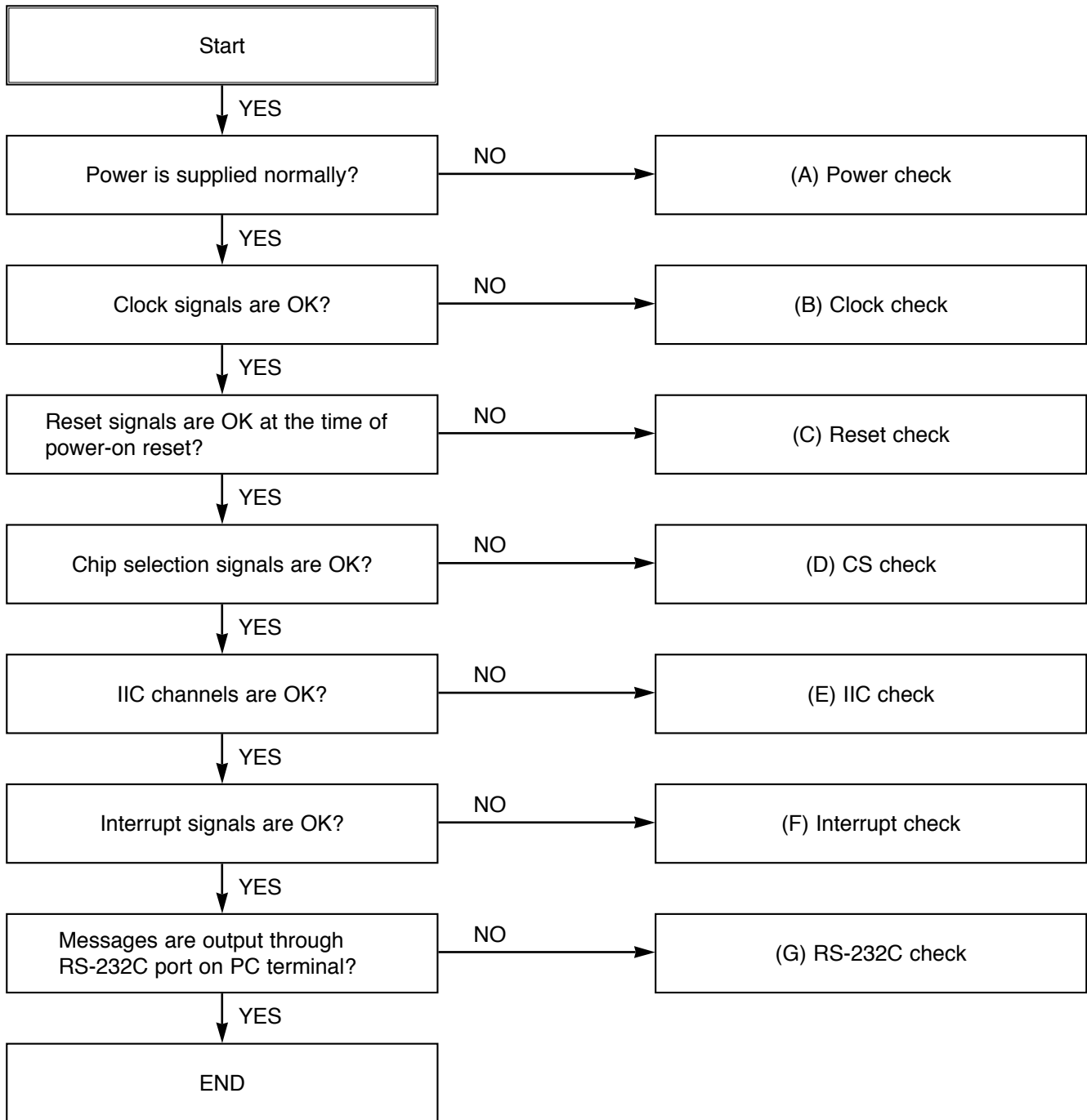


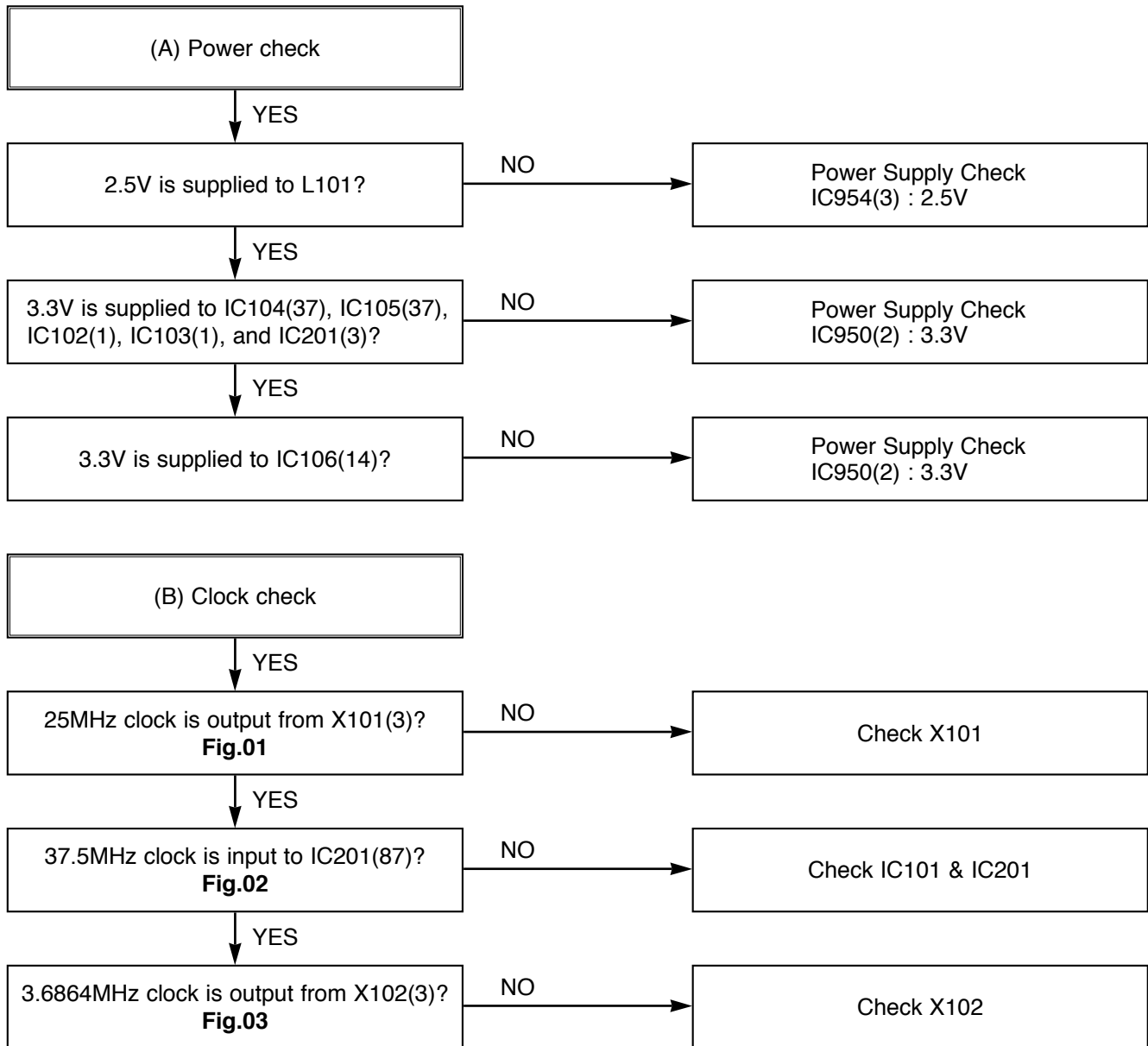
SECTION 3 ELECTRICAL CONTENTS

ELECTRICAL TROUBLESHOOTING GUIDE	3-2
1. CPU(SYSTEM CONTROL) TROUBLESHOOTING	3-2
2. ATSC/QAM FRONT_END TROUBLESHOOTING.....	3-10
3. NTSC/FRONT_END TROUBLESHOOTING.....	3-12
4. VIDEO TROUBLESHOOTING	3-13
5. DVI TROUBLESHOOTING	3-22
6. AUDIO TROUBLESHOOTING	3-26
 BLOCK DIAGRAM	 3-33
1. OVERALL BLOCK DIAGRAM 1	3-33
2. OVERALL BLOCK DIAGRAM 2.....	3-34
 CIRCUIT DIAGRAMS	 3-35
1. CPU & SYSTEM MEMORY CIRCUIT DIAGRAM	3-35
2. CPU PERI & IR-IN & AUX-CTRL CIRCUIT DIAGRAM.....	3-37
3. TERRESTRIAL FRONT_END CIRCUIT DIAGRAM	3-39
4. HD2 & SDRAM CIRCUIT DIAGRAM	3-41
5. DVI TRANSMITTER CIRCUIT DIAGRAM	3-43
6. VDP I/F & DISPLAY OUTPUT CIRCUIT DIAGRAM.....	3-45
7. NTSC AUDIO PROCESSOR CIRCUIT DIAGRAM.....	3-47
8. POWER REGULATION CIRCUIT DIAGRAM.....	3-49
9. MPI CIRCUIT DIAGRAM.....	3-51
10. PTC CIRCUIT DIAGRAM	3-53
11. BACK PLANE CIRCUIT DIAGRAM.....	3-55
 PRINTED CIRCUIT DIAGRAMS	 3-57
1. DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(TOP).....	3-57
2. DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(BOTTOM).....	3-59
3. MPI PRINTED CIRCUIT DIAGRAM(TOP)	3-61
4. PTC PRINTED CIRCUIT DIAGRAM	3-63
5. BACK PLANE PRINTED CIRCUIT DIAGRAM.....	3-65

ELECTRICAL TROUBLESHOOTING GUIDE

1. CPU(SYSTEM CONTROL) TROUBLESHOOTING





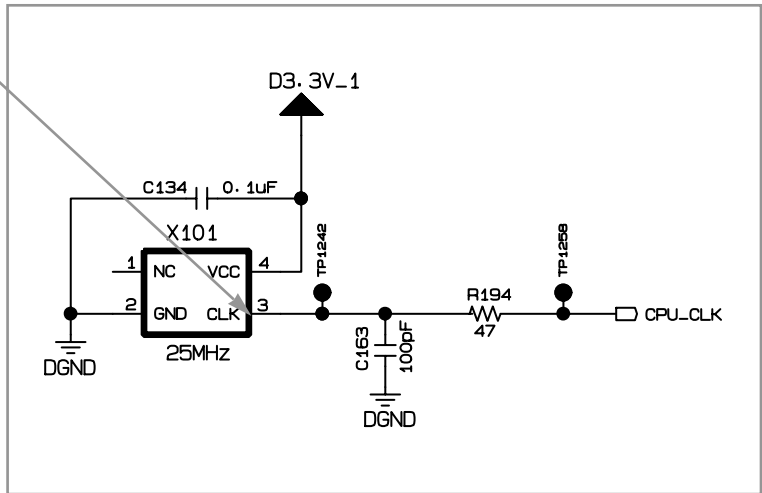
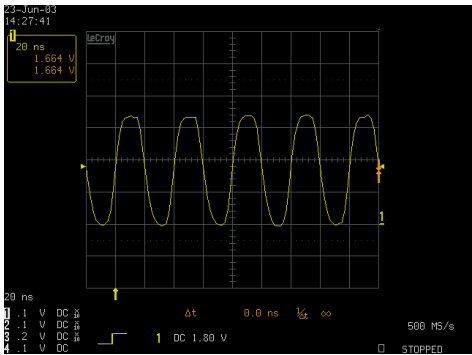


Fig.01 X101(3) : 25MHz CPU Clock

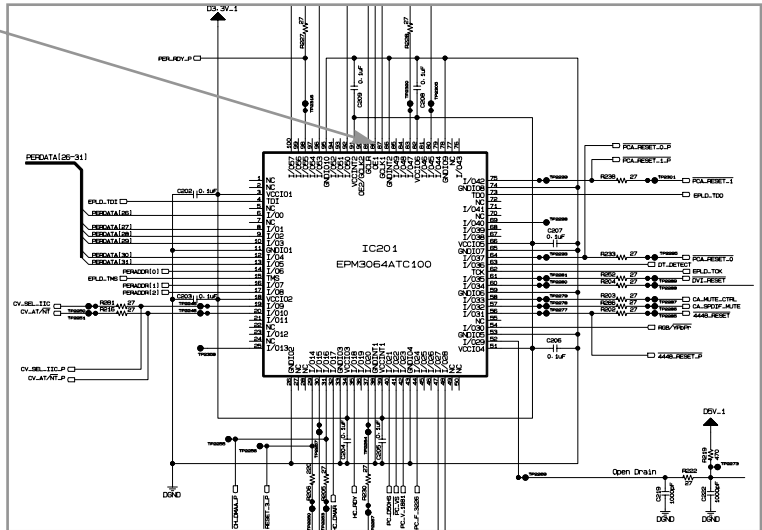
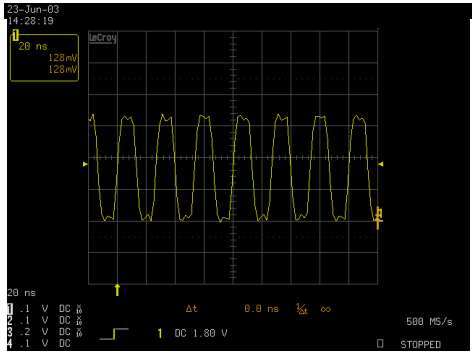


Fig.02 IC201(87) : 37.5MHz PERI Clock

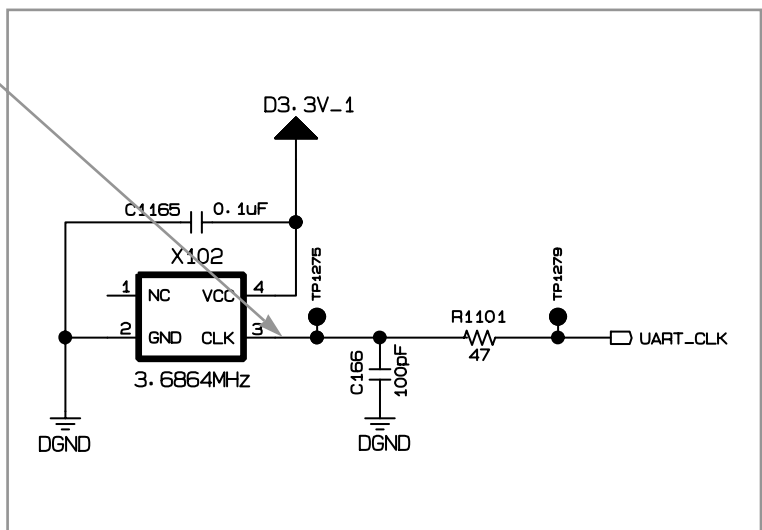
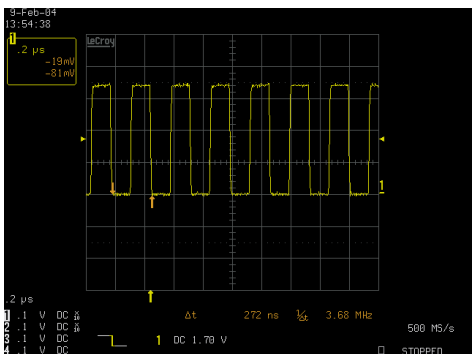


Fig.03 X102(3) : 3.6864MHz UART Clock

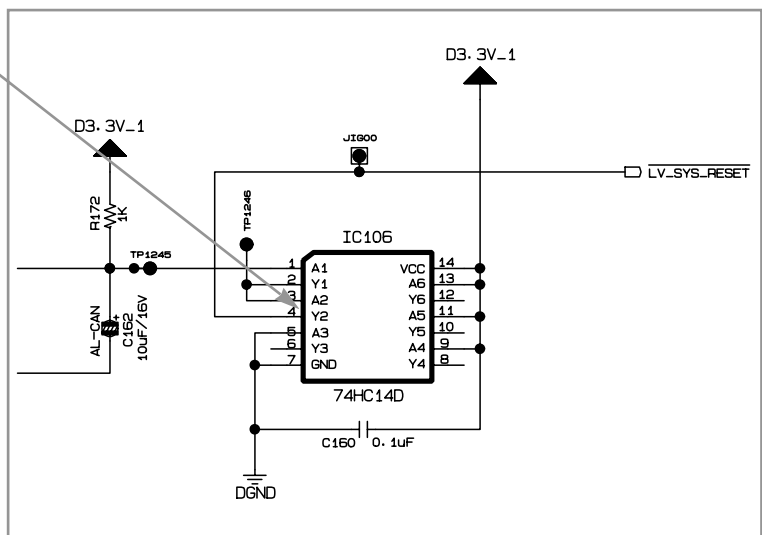
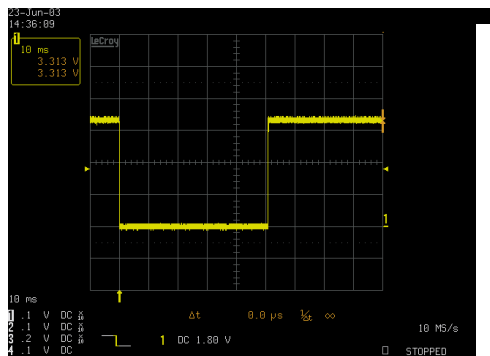
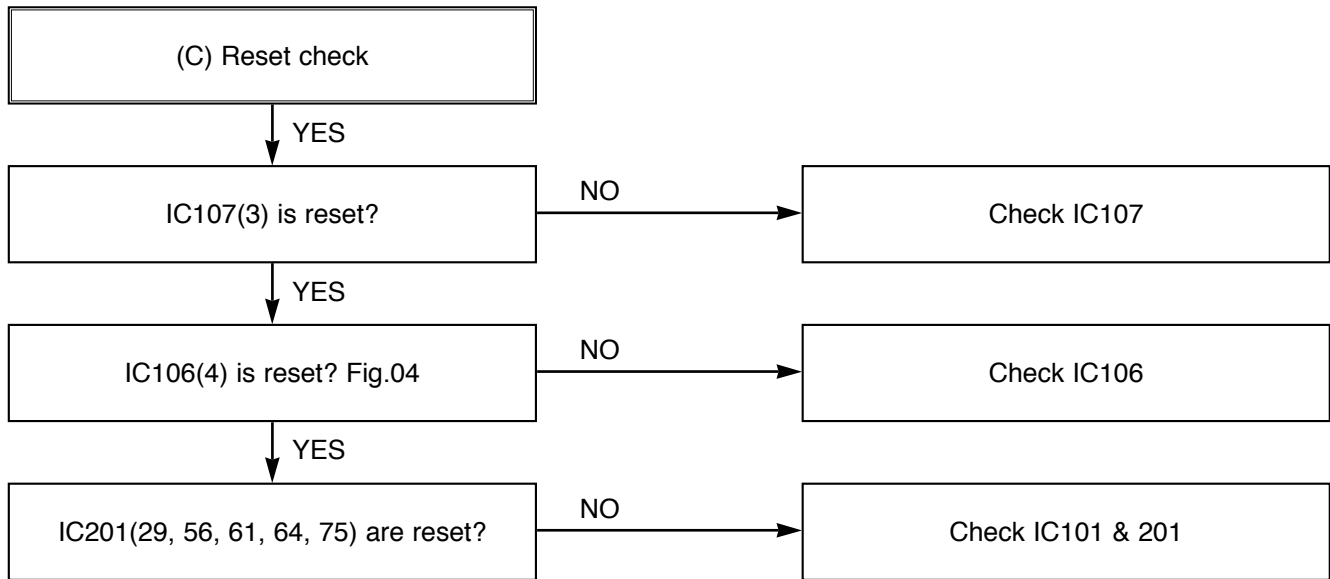


Fig.04 IC106(4) : Reset signal

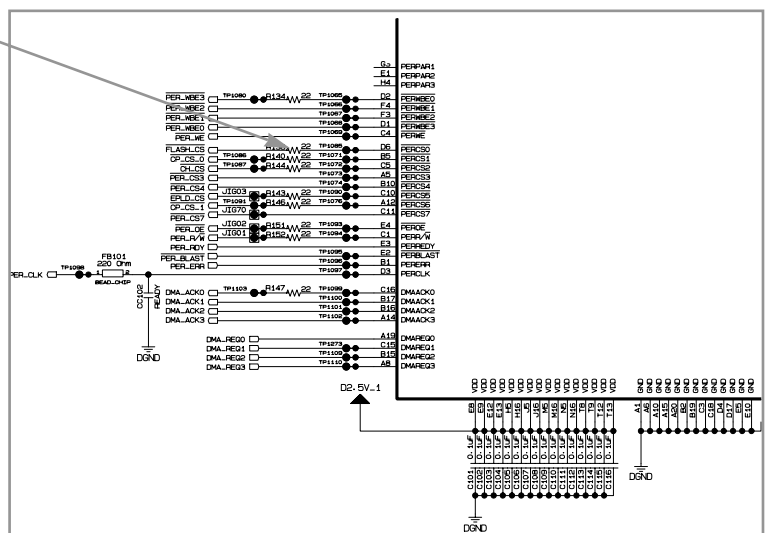
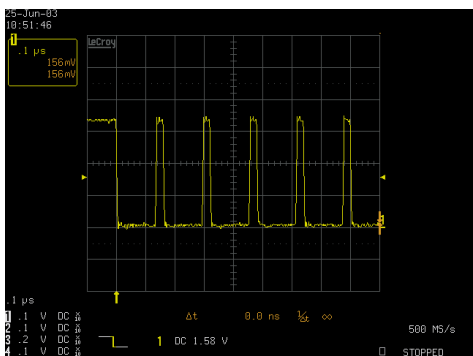
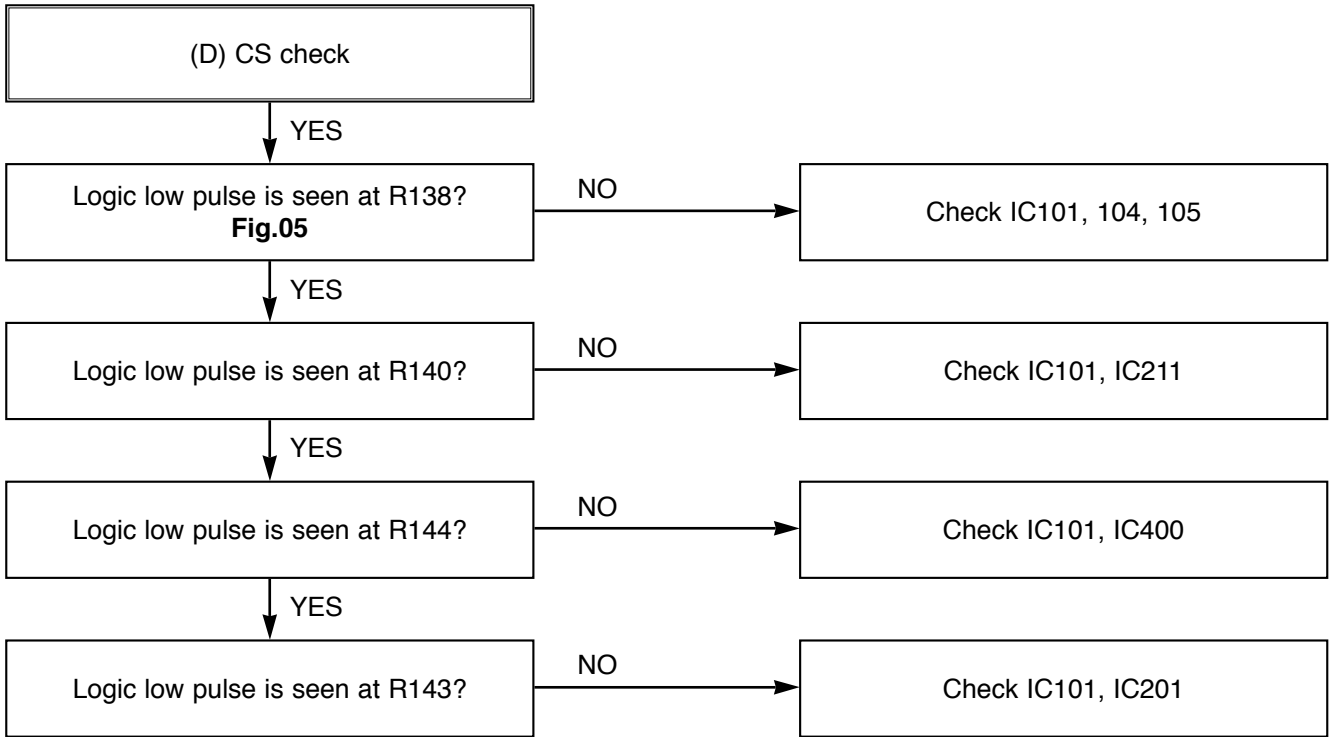


Fig.05 R138(1) : Flash CS signal

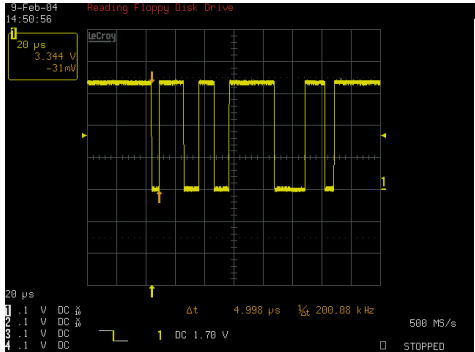
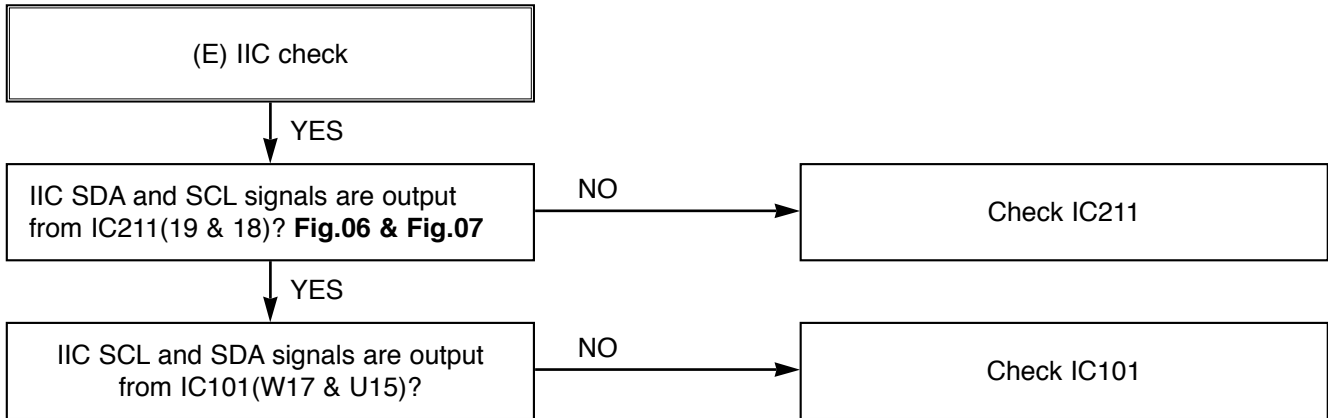


Fig.06 IC211(19) :
3.3V IIC SDA signal

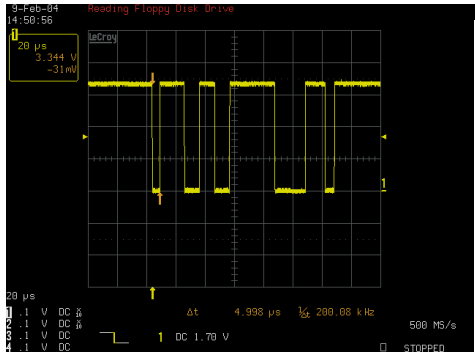
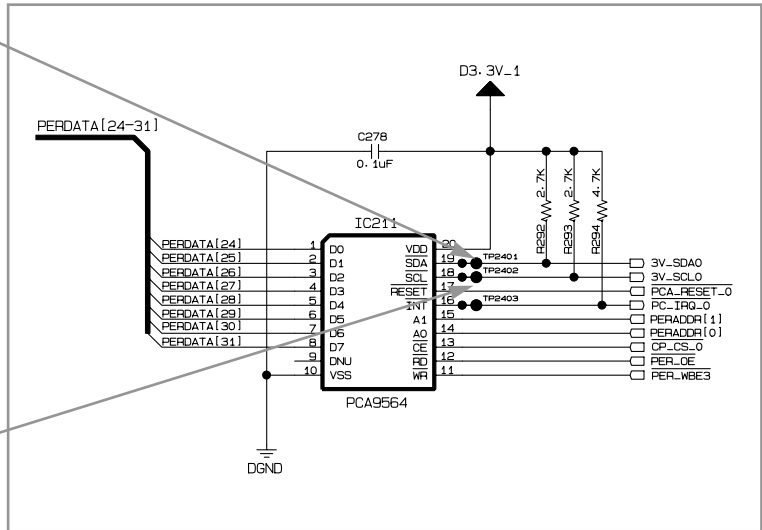


Fig.07 IC211(18) :
3.3V IIC SCL signal



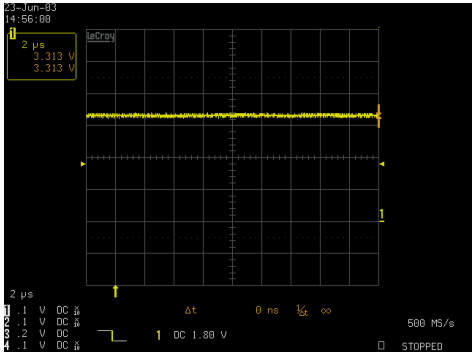
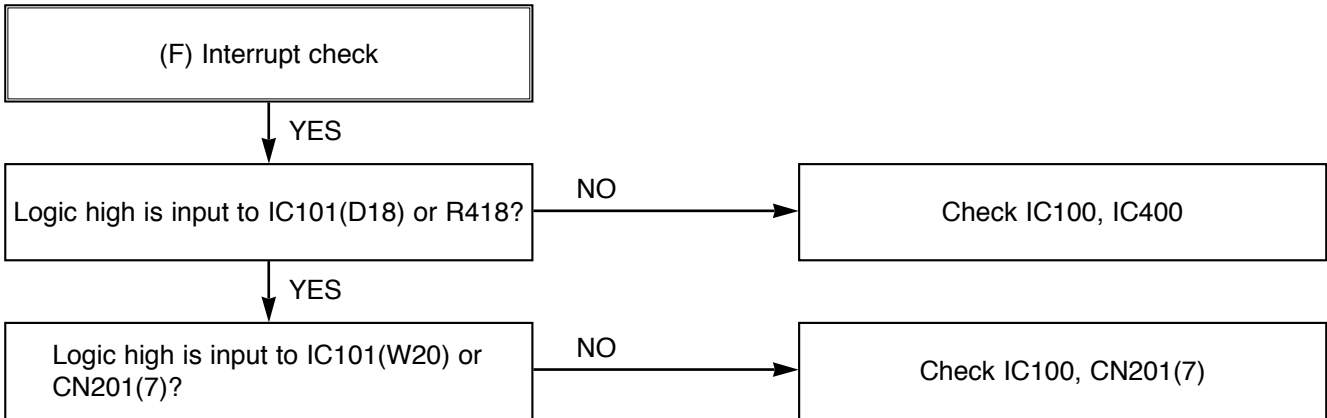
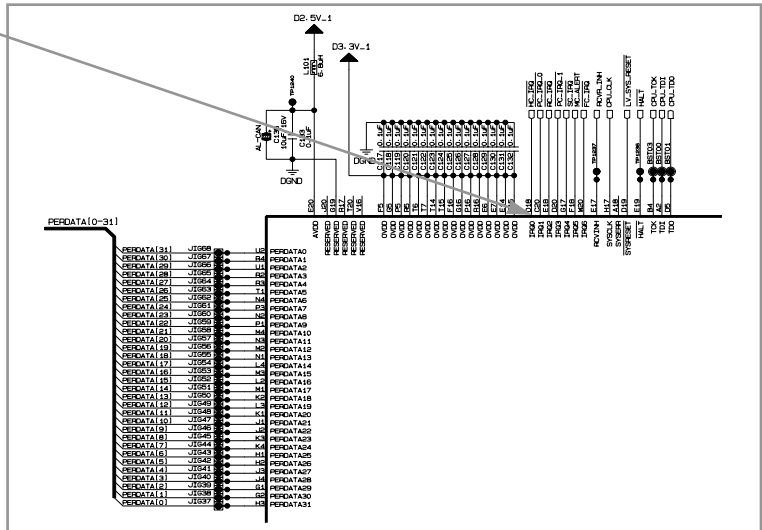


Fig.08 IC101(D18) :
No Interrupt signal



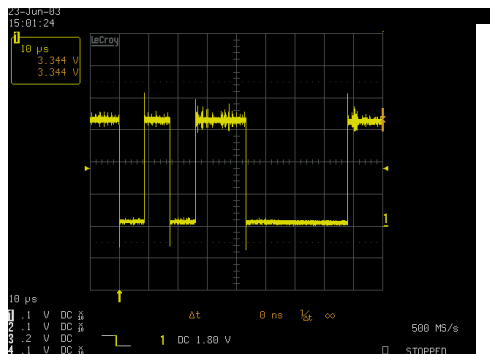
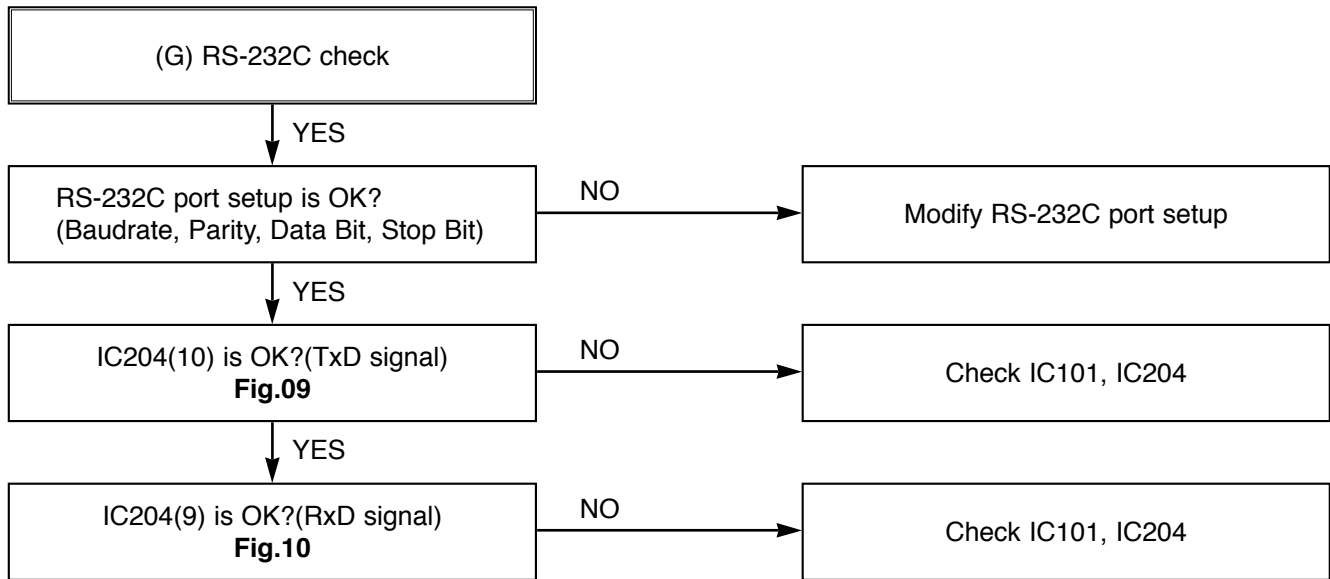


Fig.09 IC204(10) : TxD signal

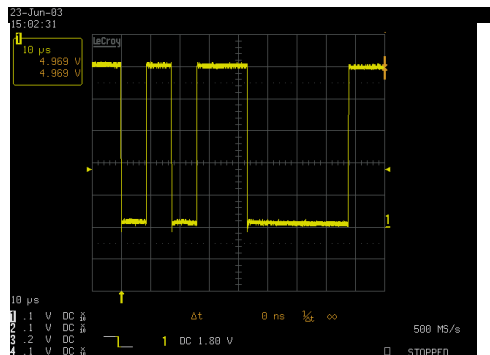
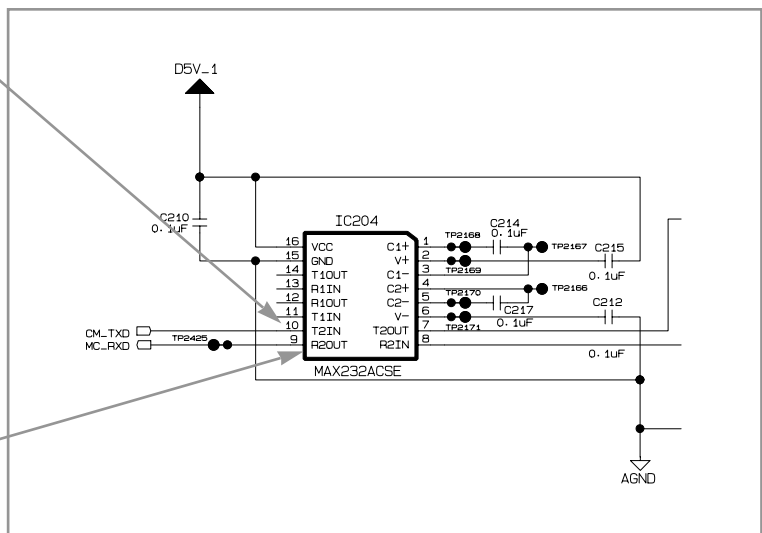
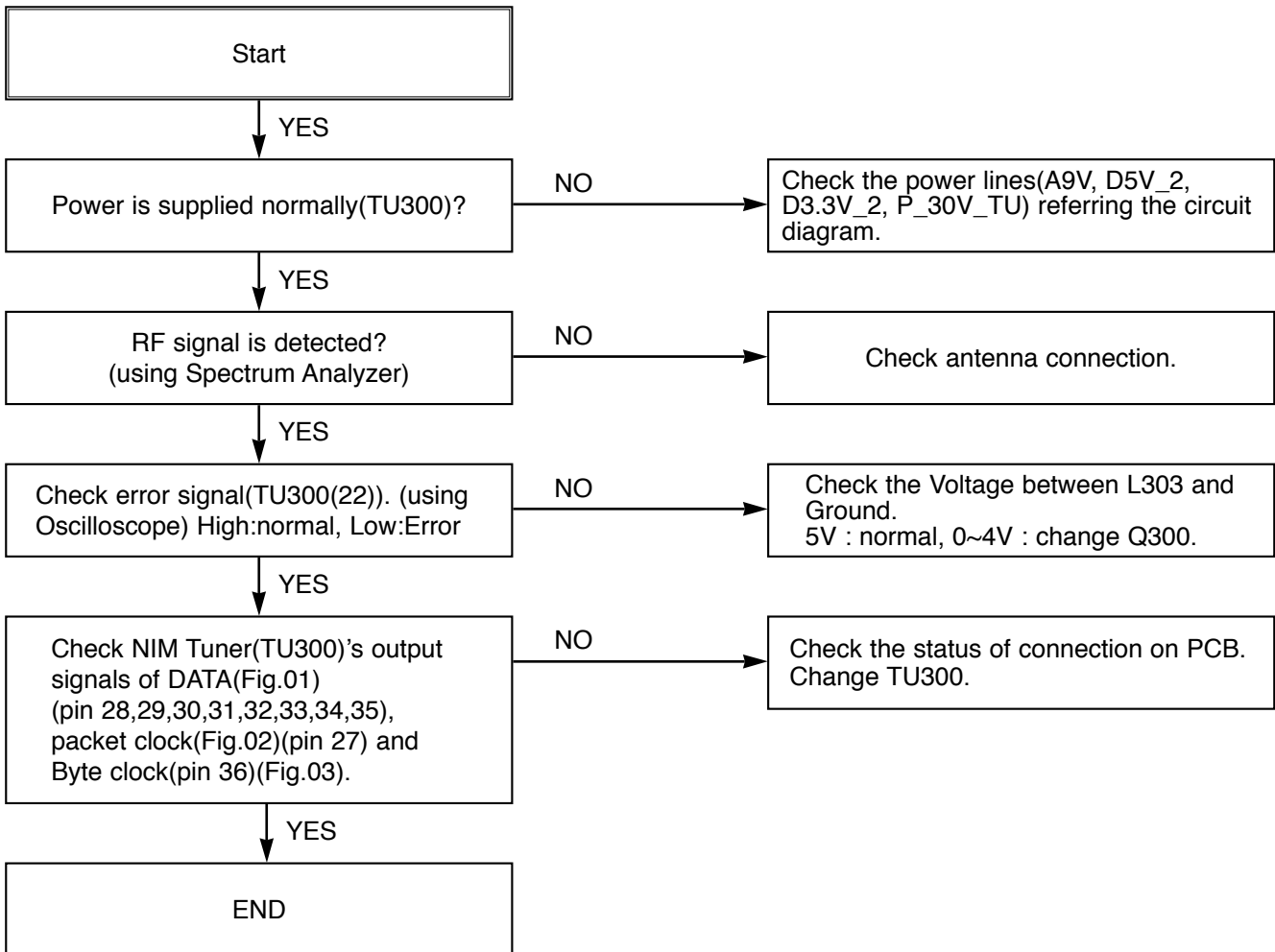


Fig.10 IC204(9) : RxD signal



2. ATSC/QAM FRONT_END TROUBLESHOOTING



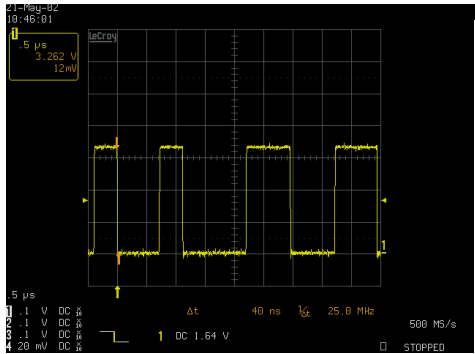


FIG.01
TU300(28,29,30,31,32,33,34,35)
VSB/QAM DATA Outputs

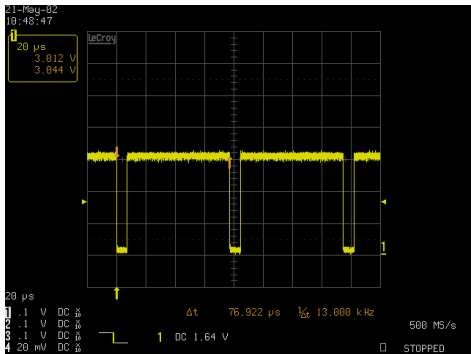


FIG.02
TU300(27)
VSB/QAM DATA Packet Clock

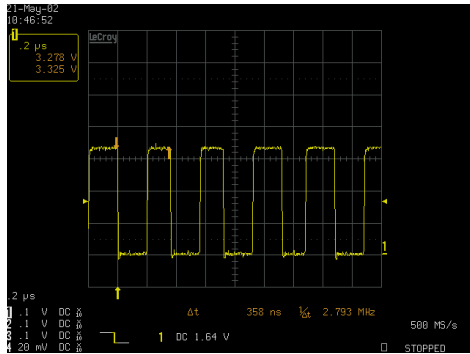
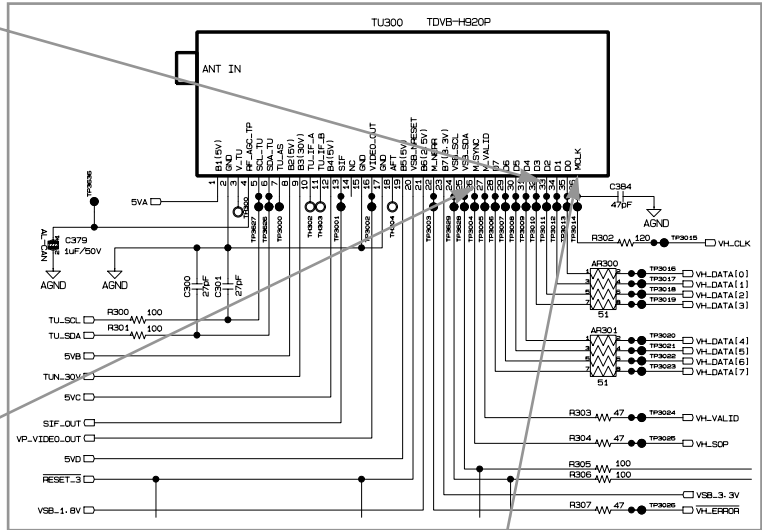


FIG.03
TU300(36)
VSB/QAM DATA Byte Clock

3. NTSC/Front_End Troubleshooting

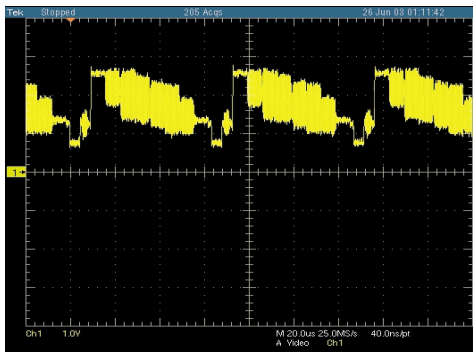
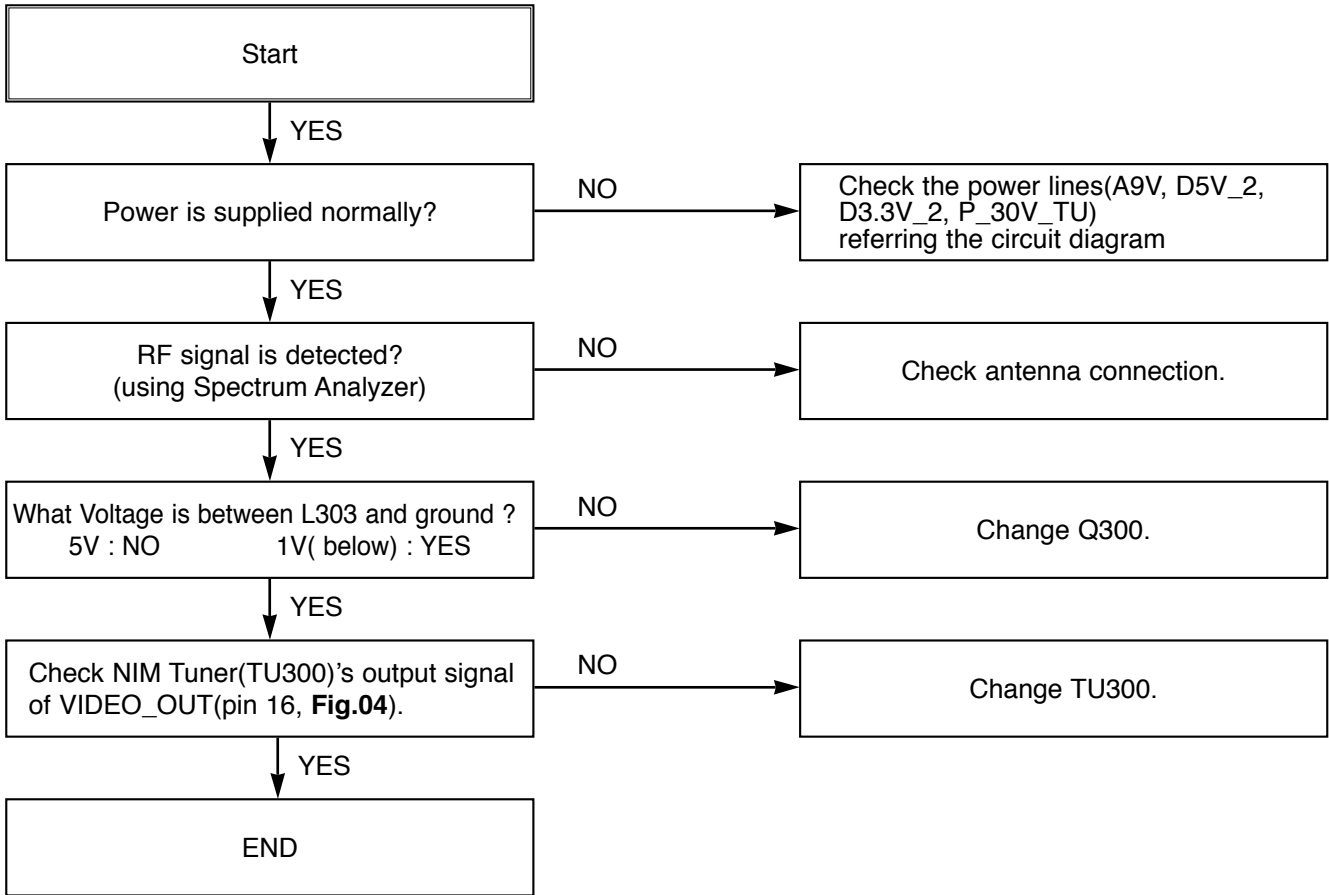
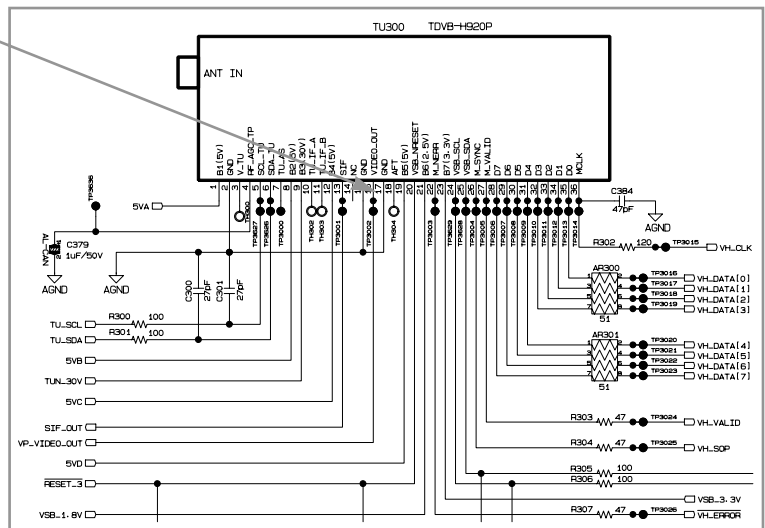
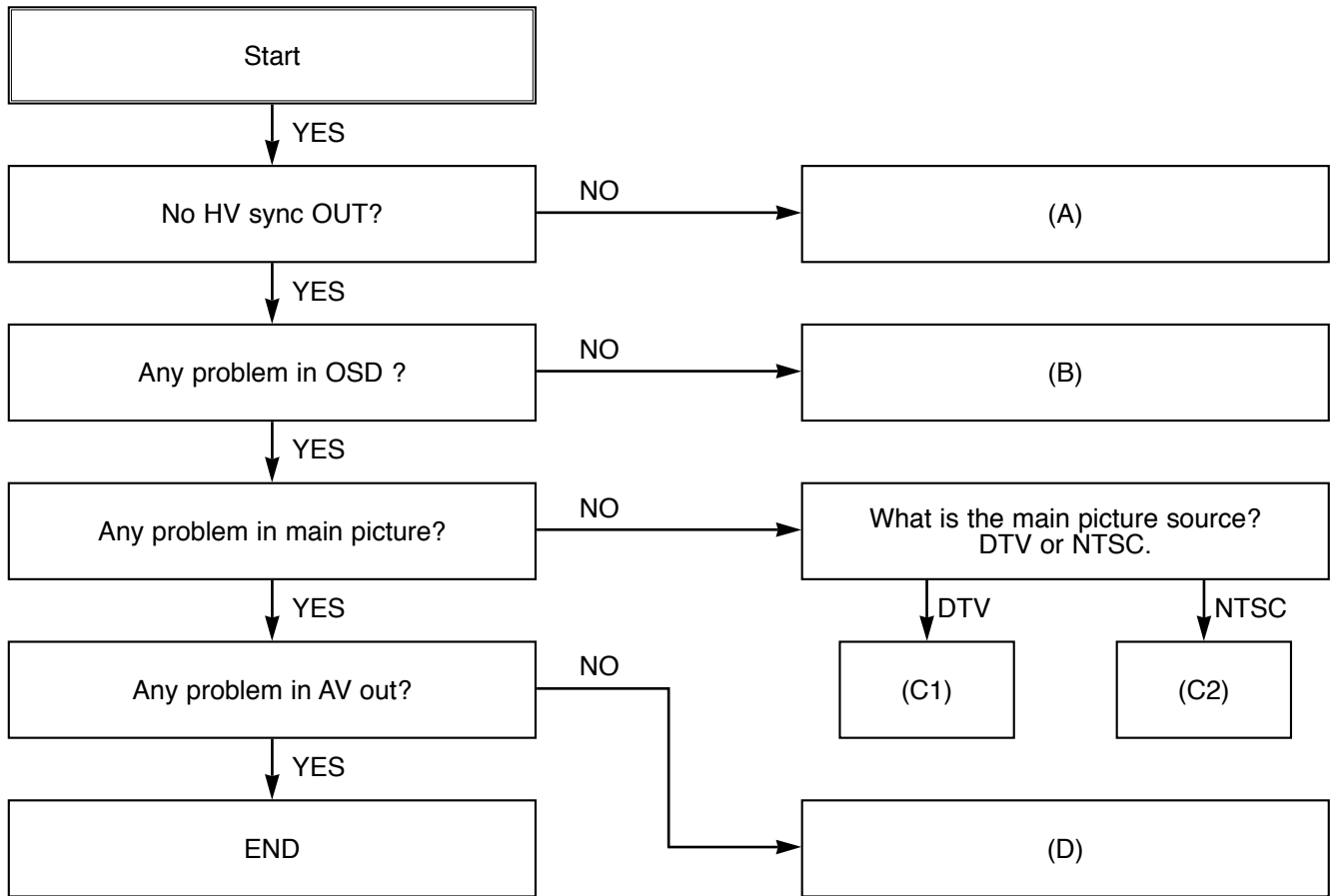


FIG.04
TU300(16) NTSC VIDEO OUT



4. VIDEO TROUBLESHOOTING



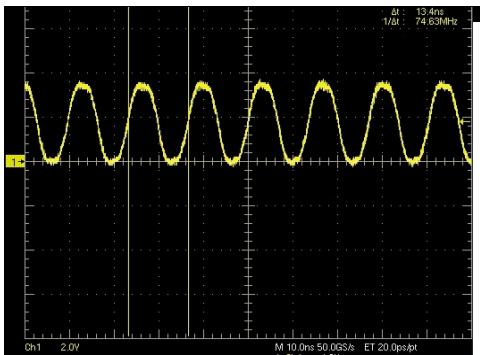
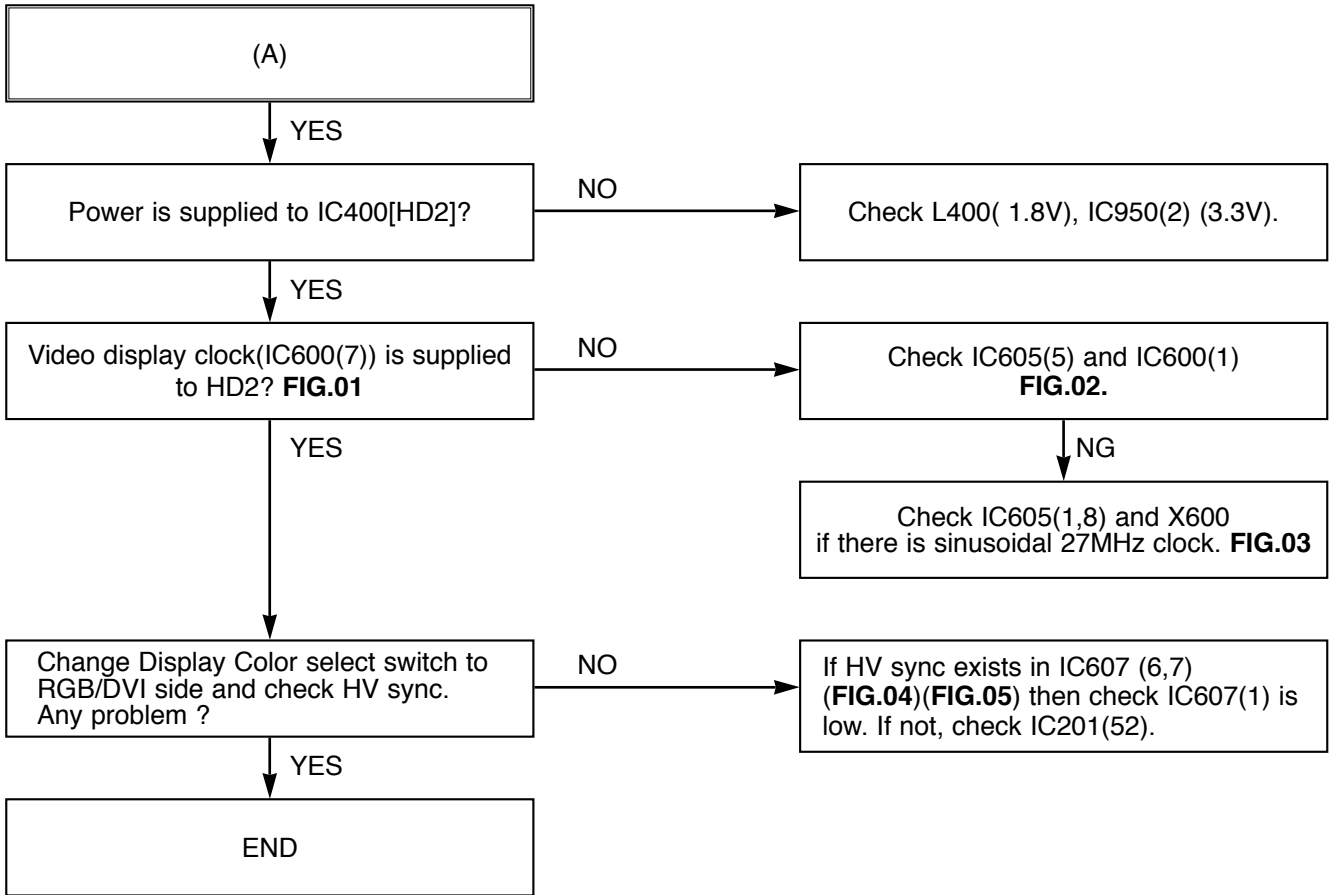
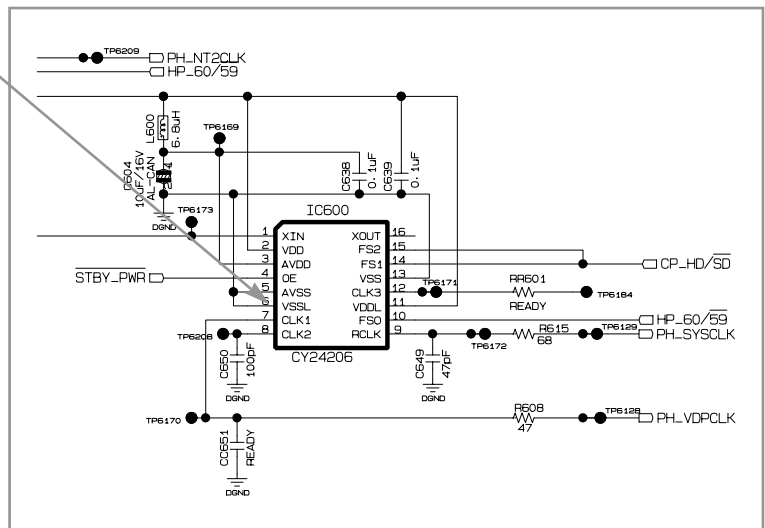


FIG.01 VDP clock



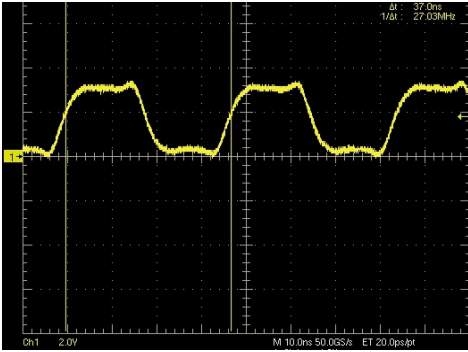


FIG.02 VCXO 27MHz clock

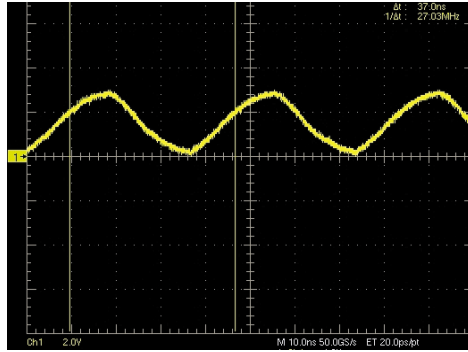


FIG.03 Crystal 27MHz clock

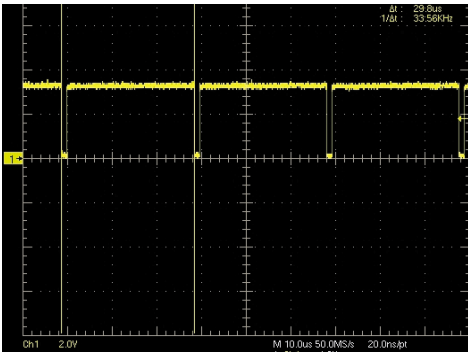


FIG.04 H-sync signal

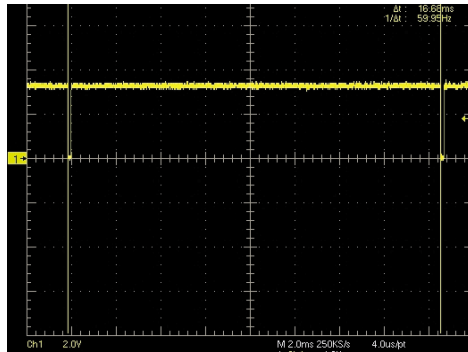
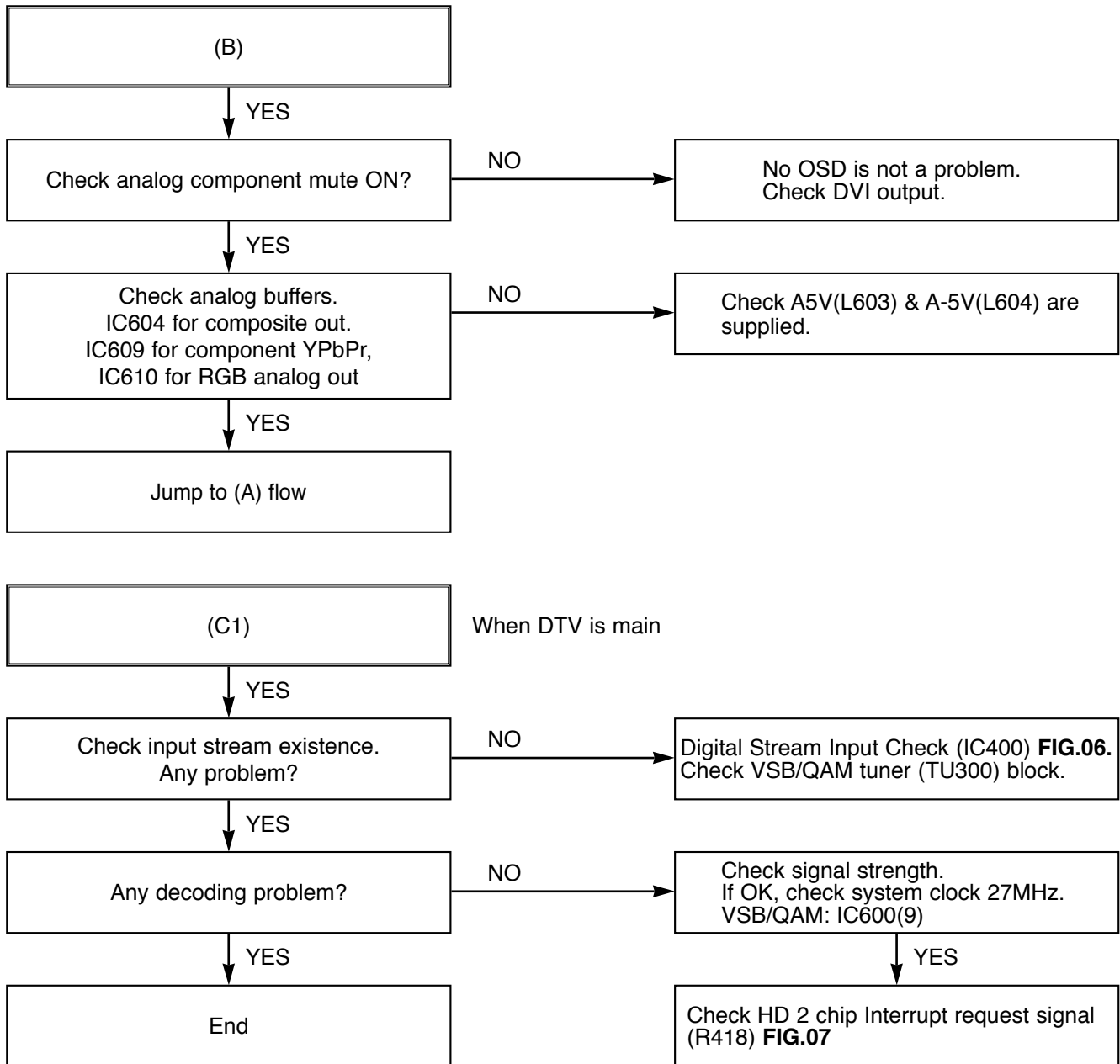


FIG.05 V-sync signal



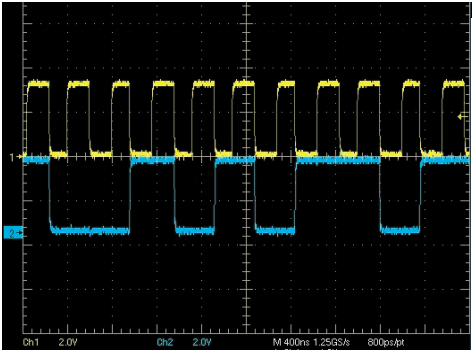


FIG.06
Digital Stream Input to IC400

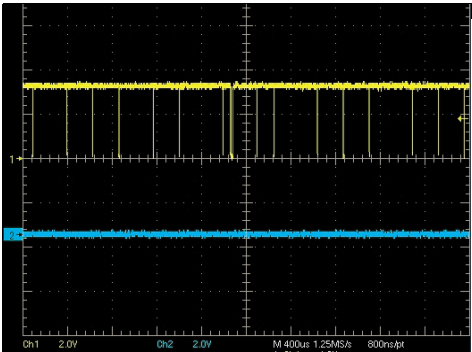
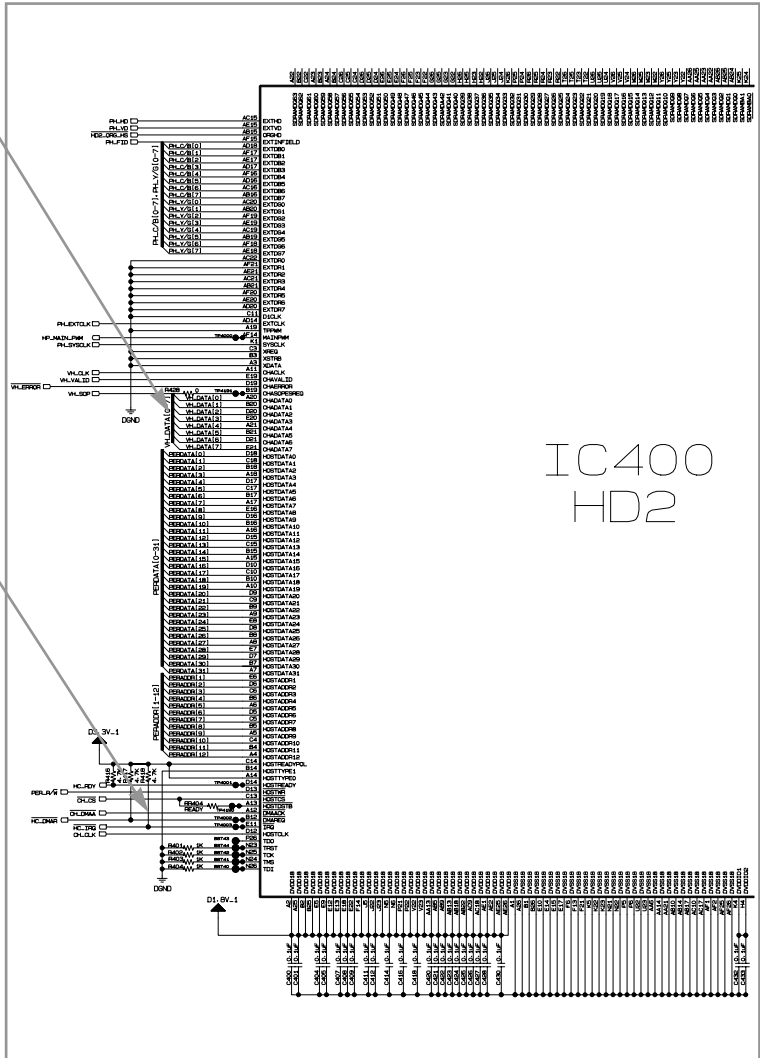


FIG.07
Interrupt Request Signal on R418



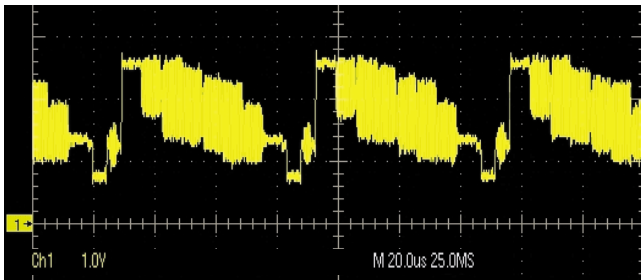
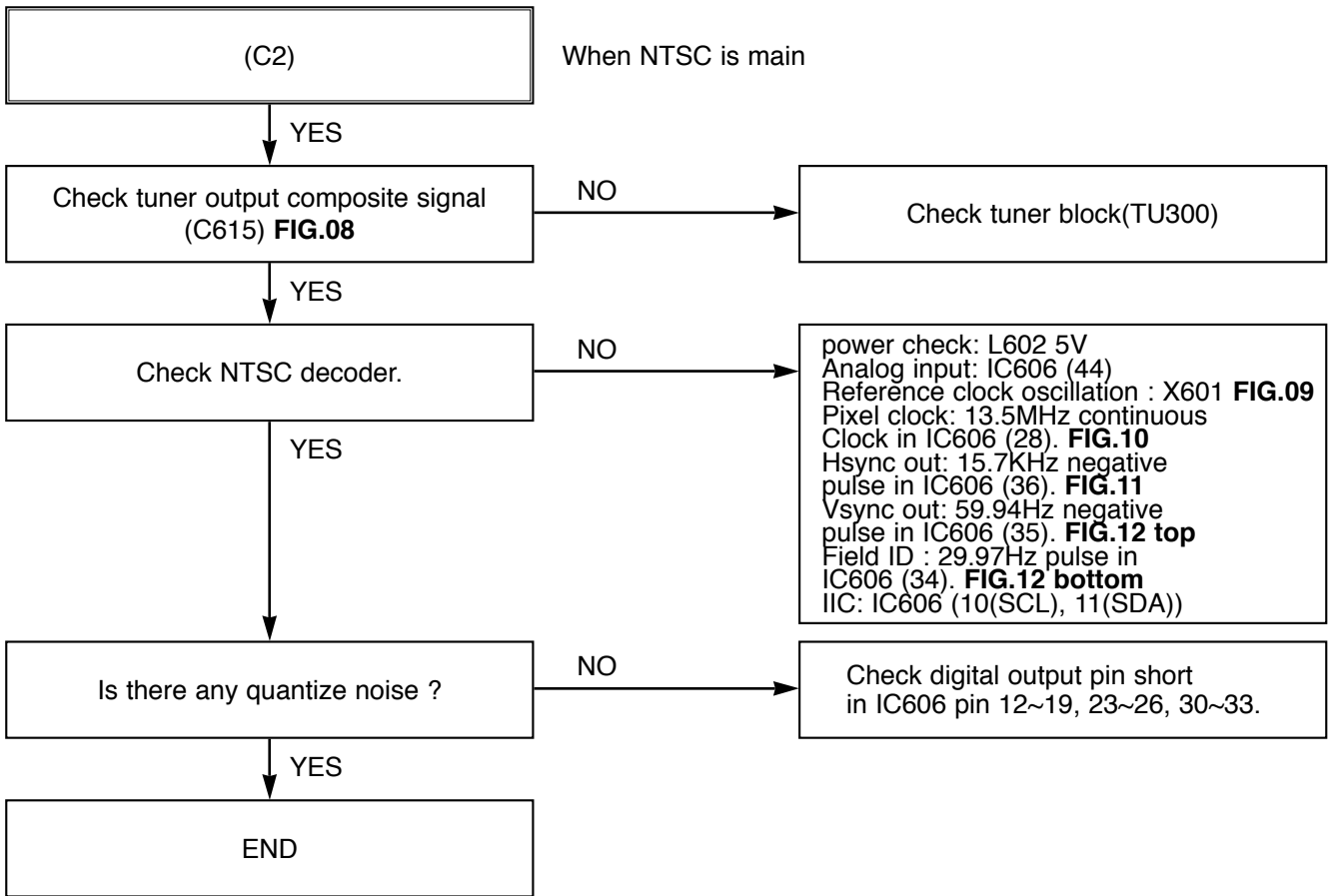


FIG.08
CVBS signal from TU300

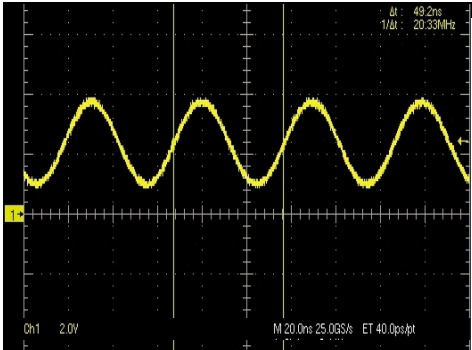


FIG.09 X601 Reference clock

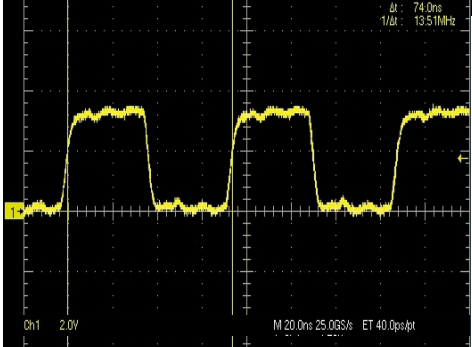


FIG.10 NTSC Decoder Pixel Clock

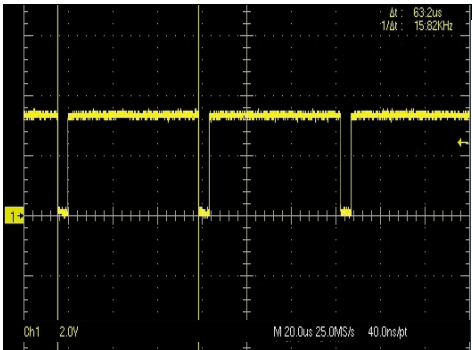


FIG.11 NTSC Decoder Hsync output

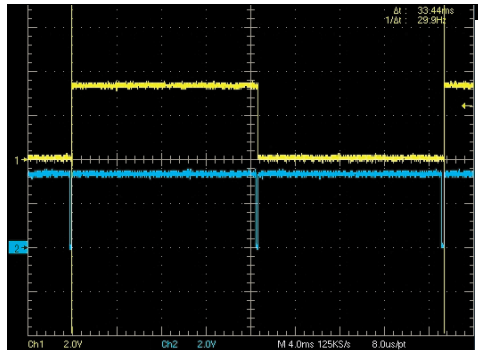
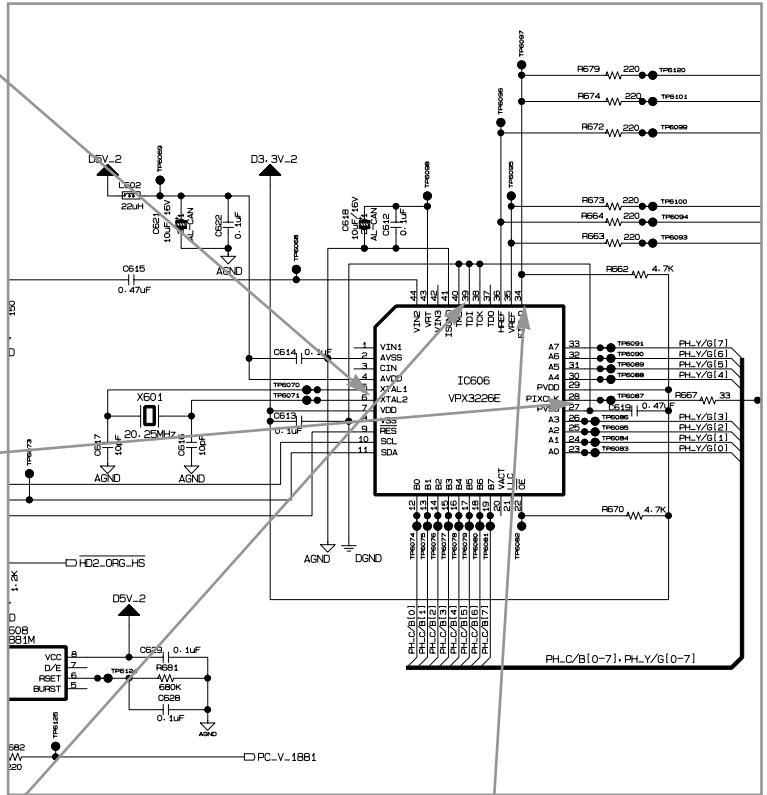
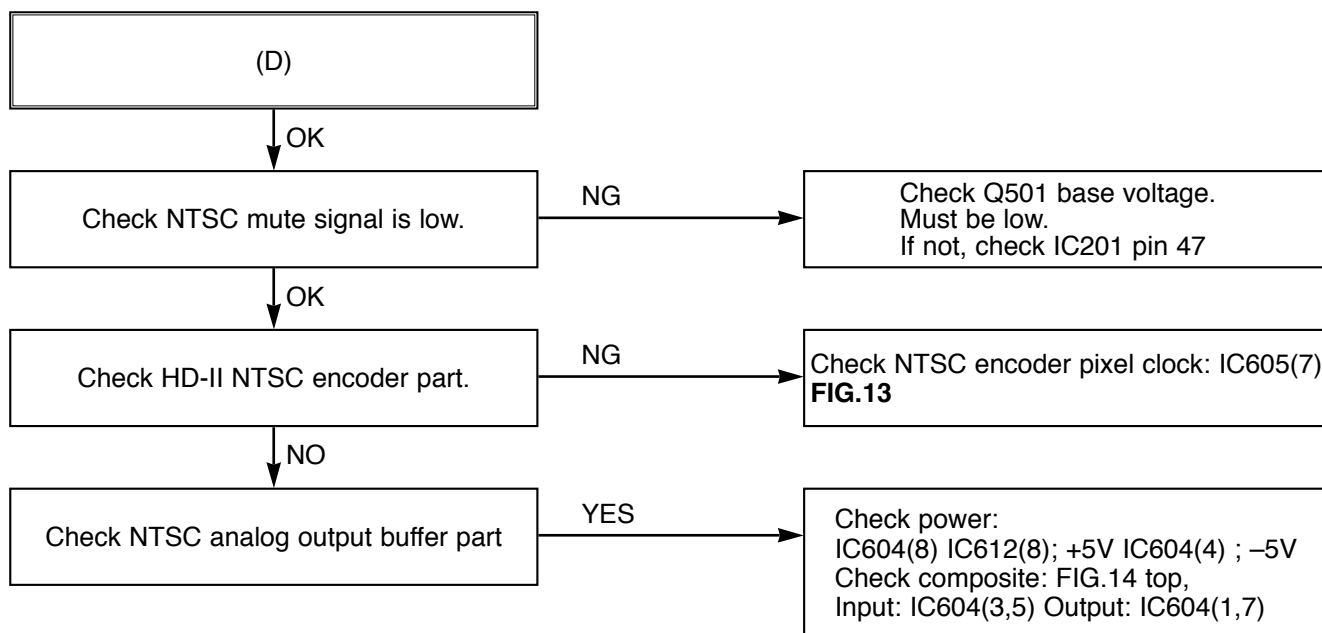


FIG.12 NTSC Decoder Vsync output(top), Field ID(bottom)



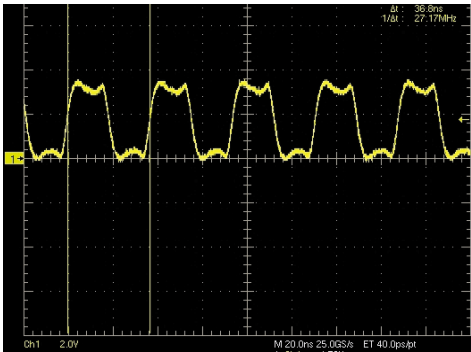


FIG.13
27MHz NTSC encoder pixel clock

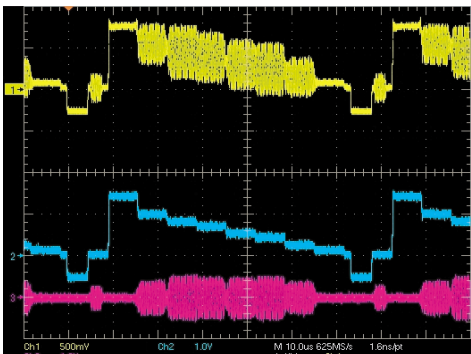
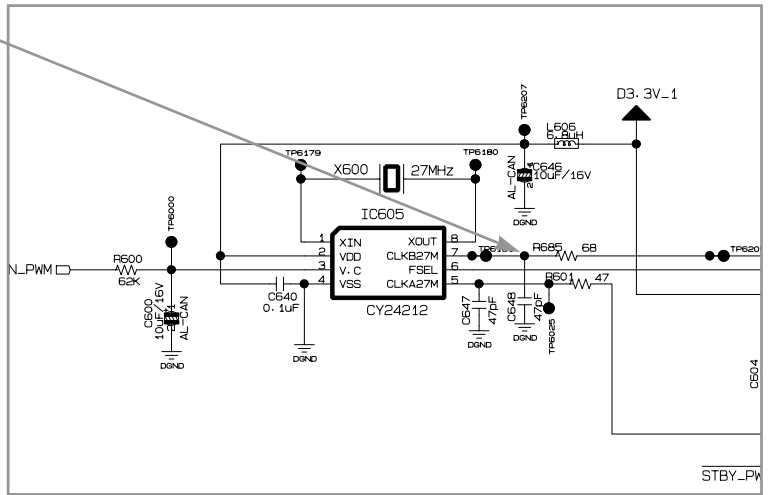
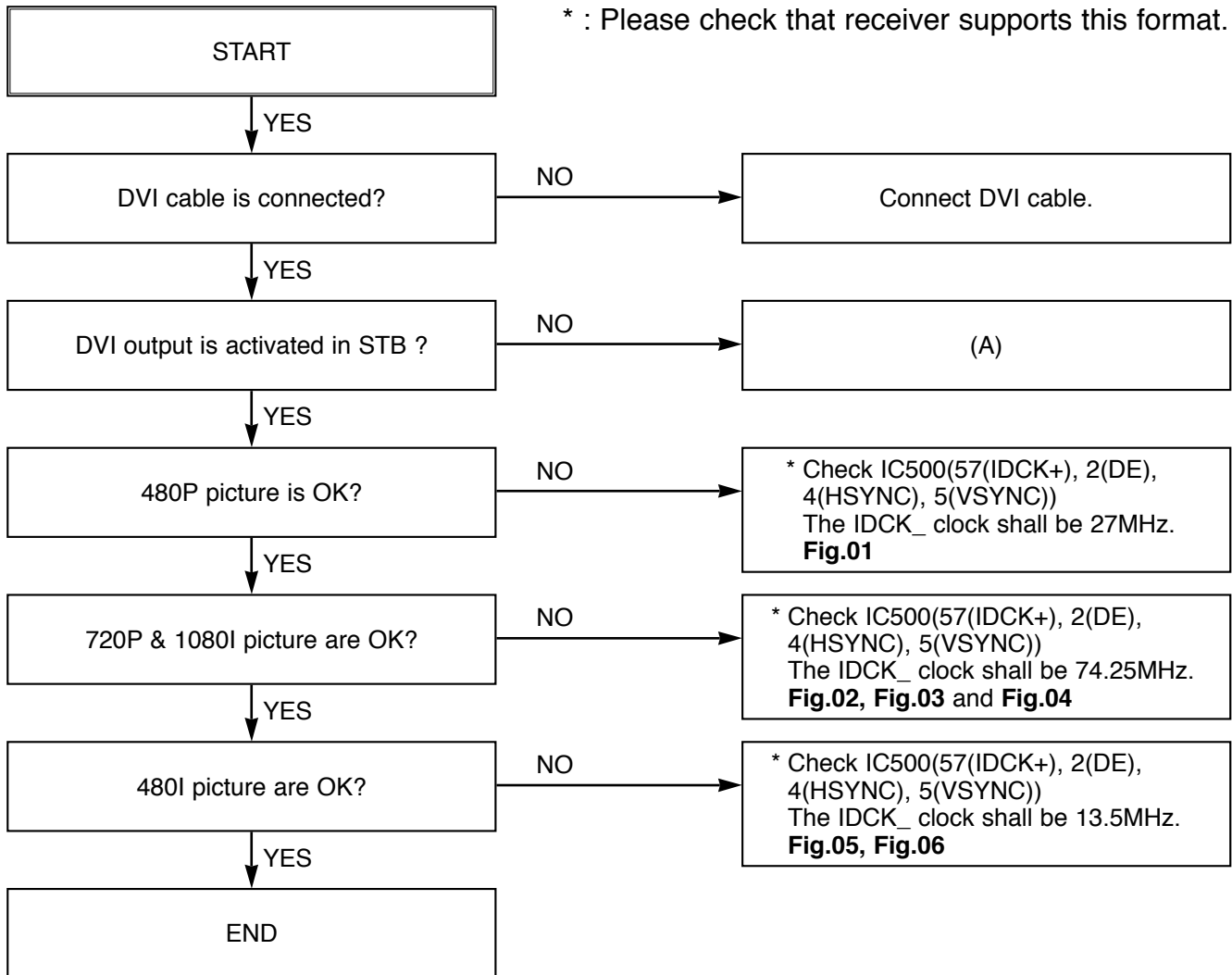
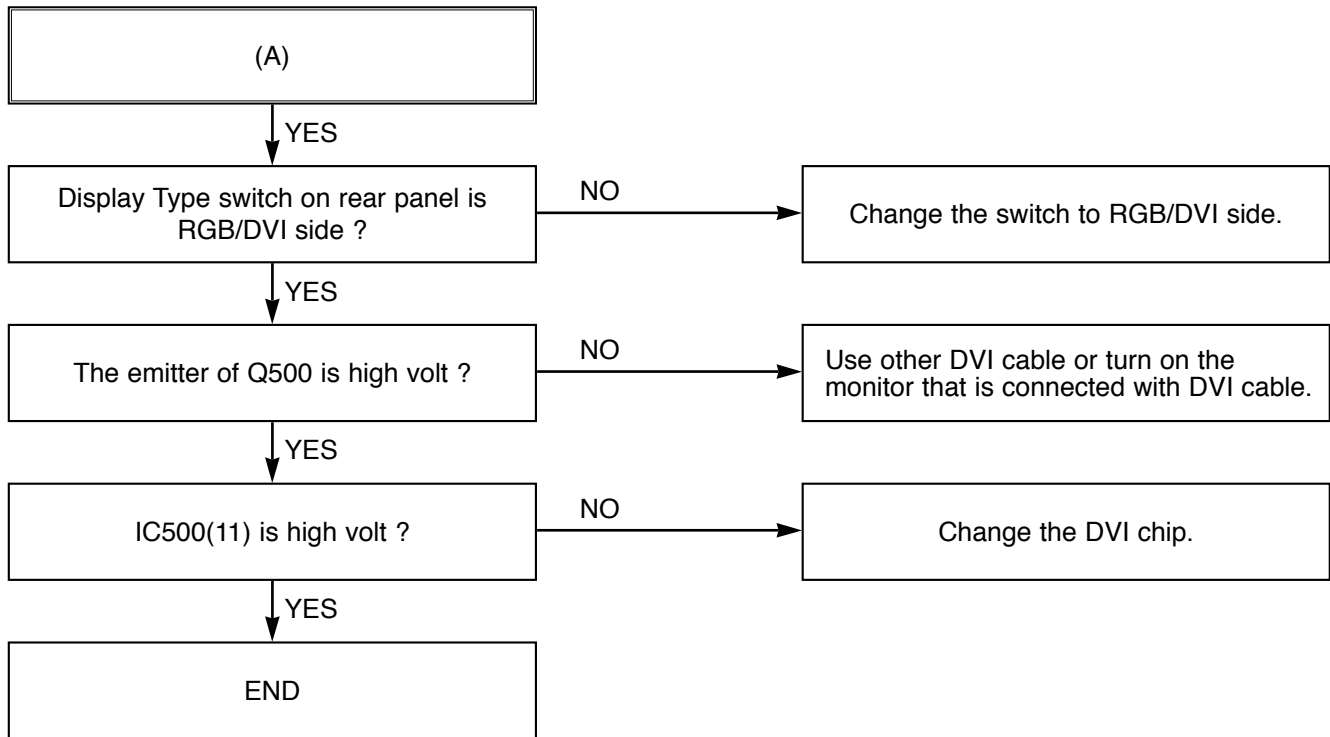


FIG.14
Composite Output(top)

5. DVI TROUBLESHOOTING

* : Please check that receiver supports this format.





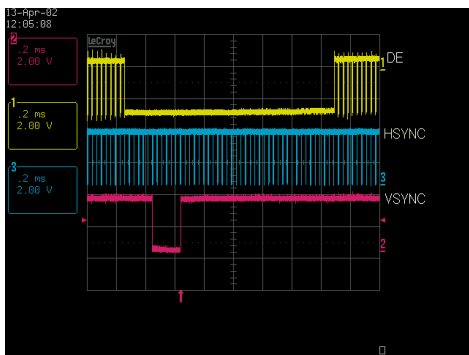
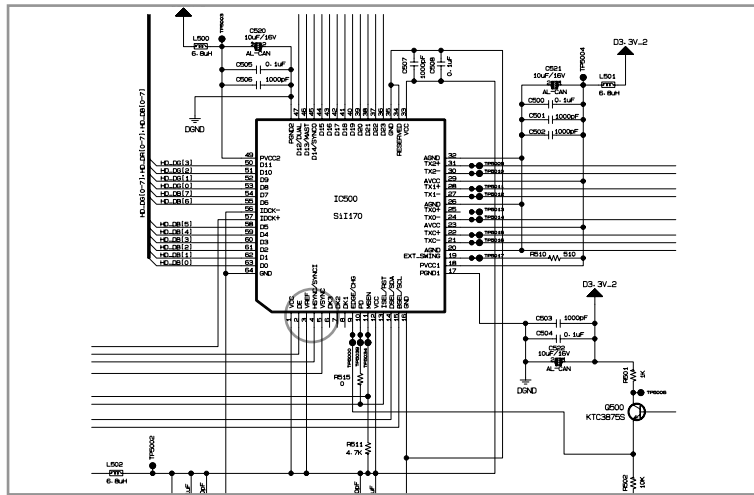


FIG.01
DVI output at 480p

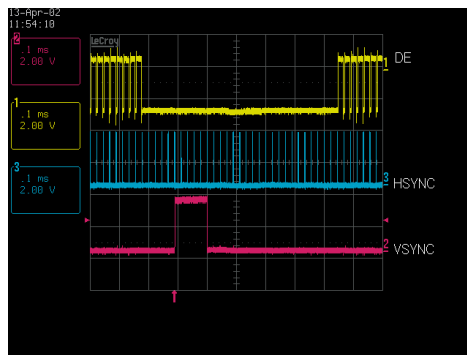


FIG.02
DVI output at 720p

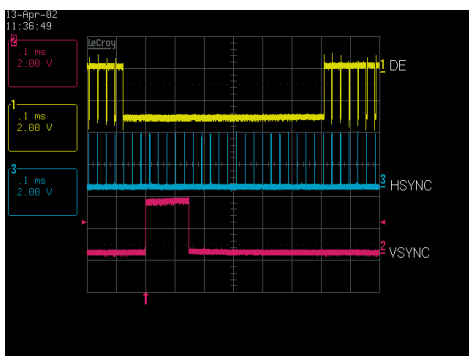


FIG.03
DVI output at 1080i even field

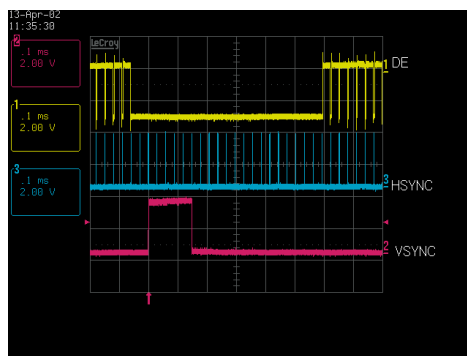


FIG.04
DVI output at 1080i odd field

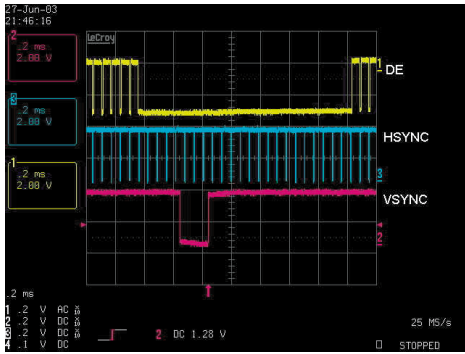


FIG.05
DVI output at 480i even field

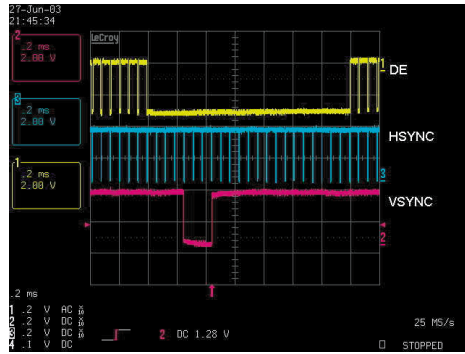
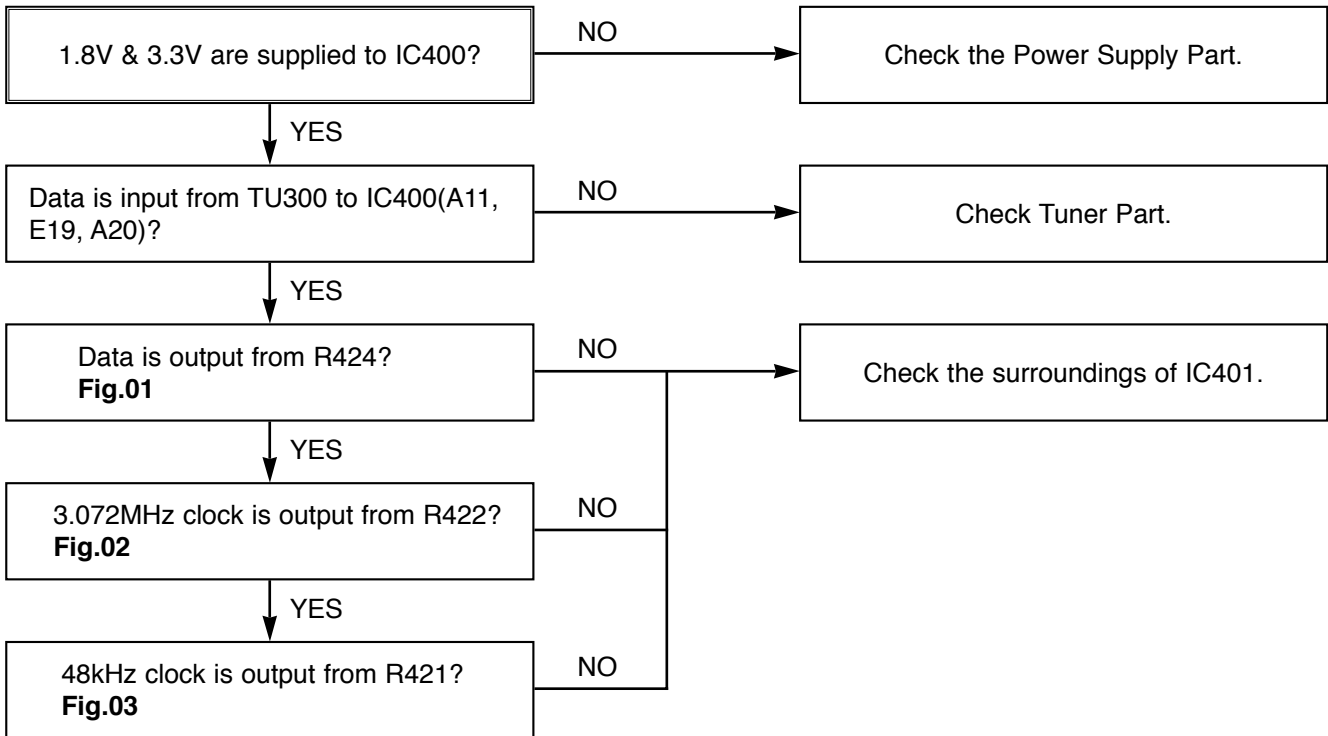


FIG.06
DVI output at 480i odd field

6. AUDIO TROUBLESHOOTING

(1) NO ATSC Audio

1) Check IC400 and Surroundings



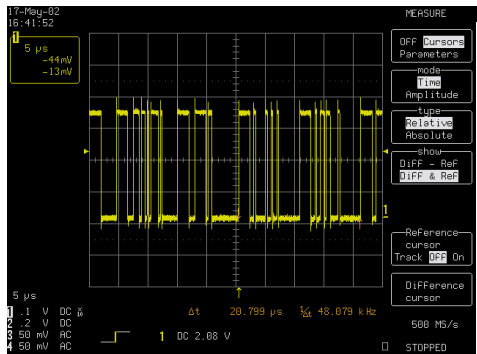


Fig.01
Data output from R424

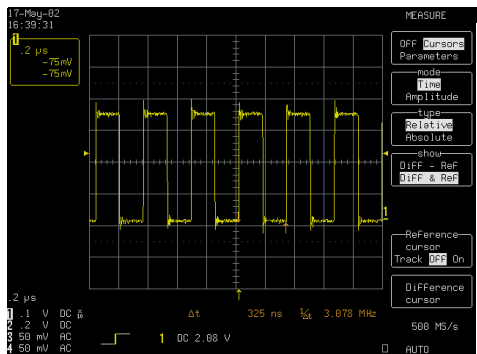


Fig.02
3.072MHz clock from R422

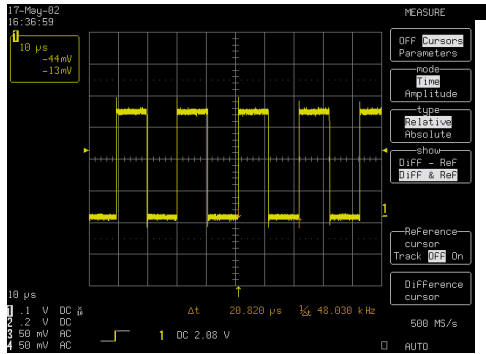
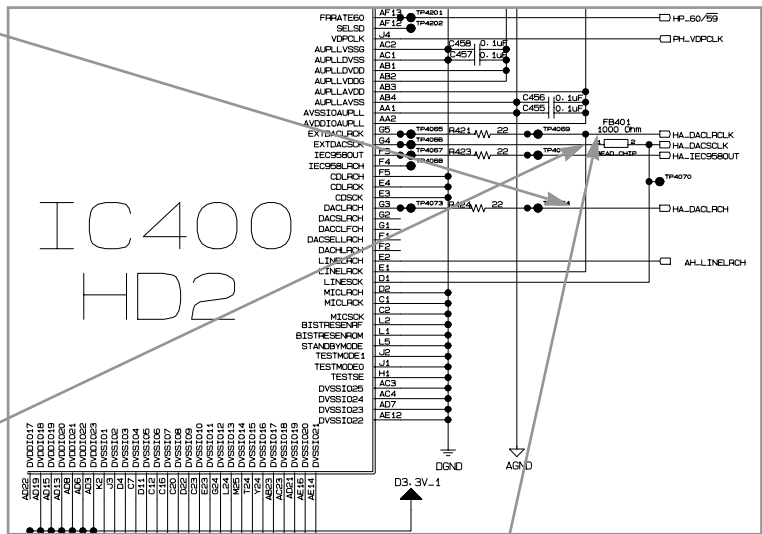


Fig.03
48KHz clock from R421

2) Check MSP4448G and Surroundings

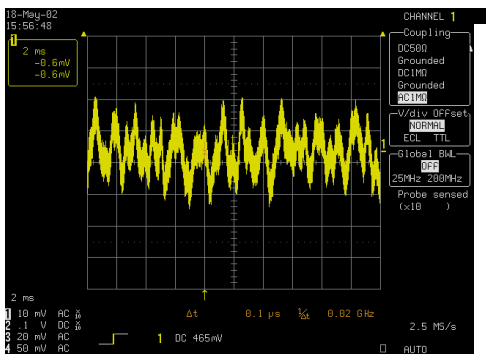
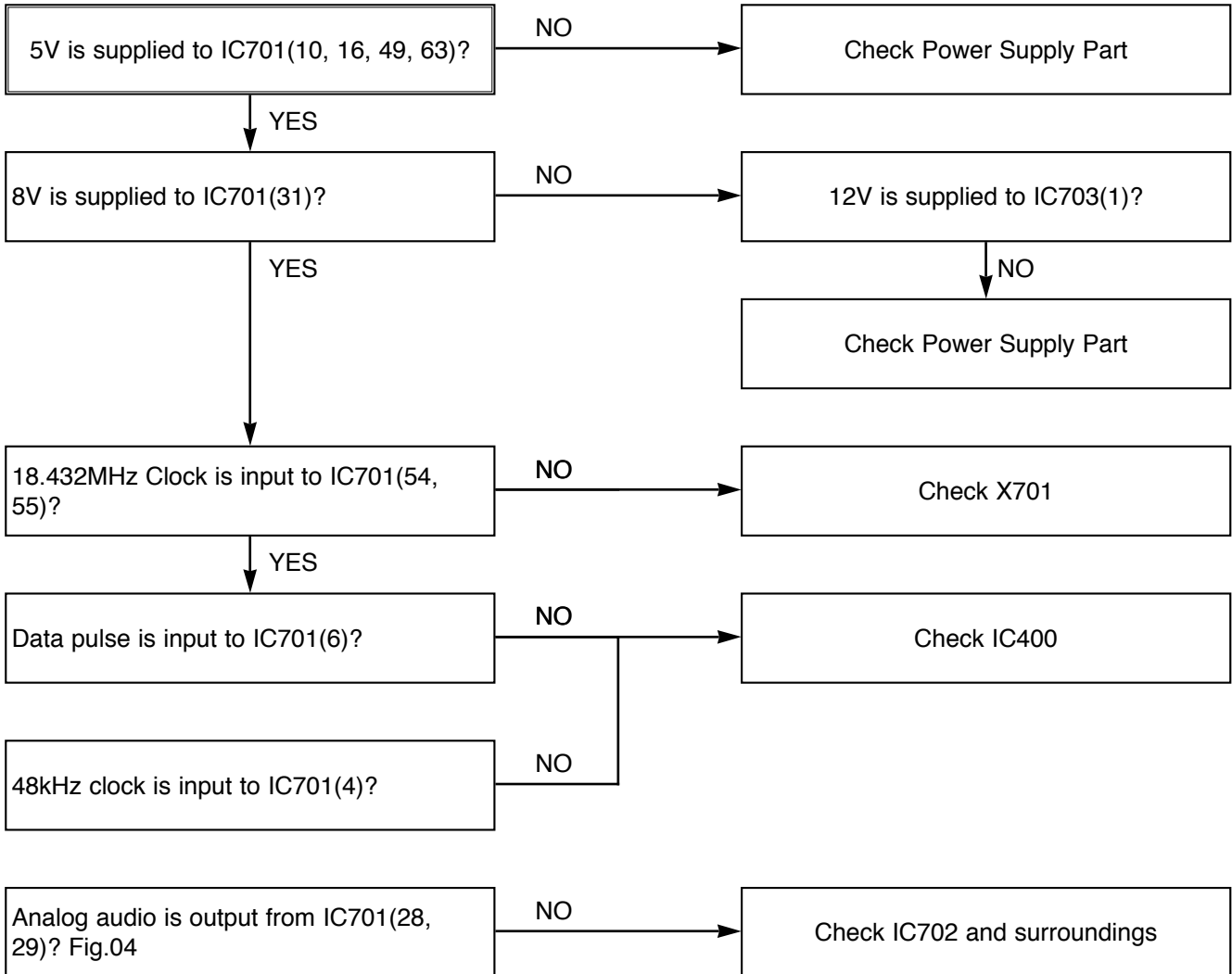
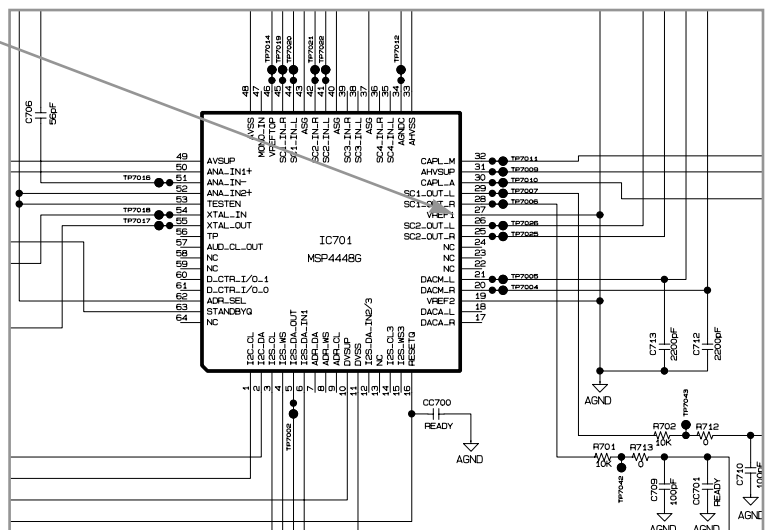
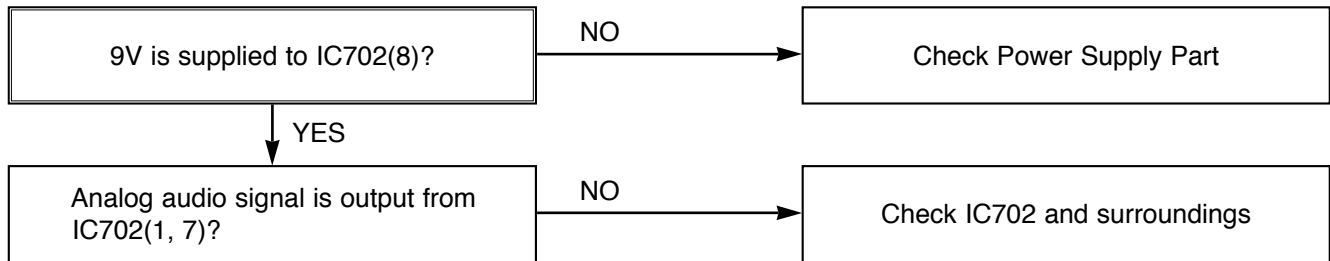


Fig.04
Analog audio output



3) No SPDIF Out for ATSC



4) Check Output Jack and Surroundings

Check Q702, Q703, Q704, Q705, JA600 and their surroundings

(2) No NTSC Audio

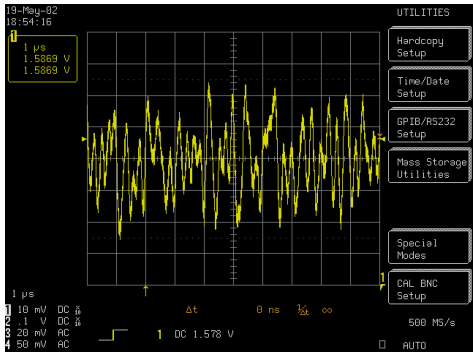
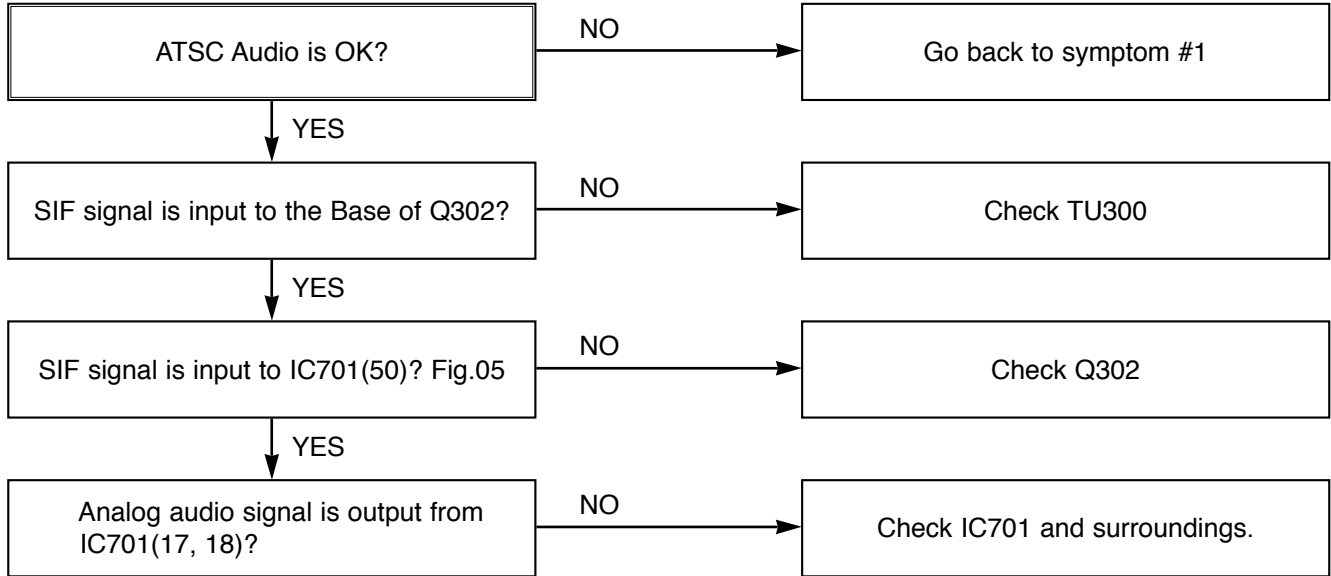
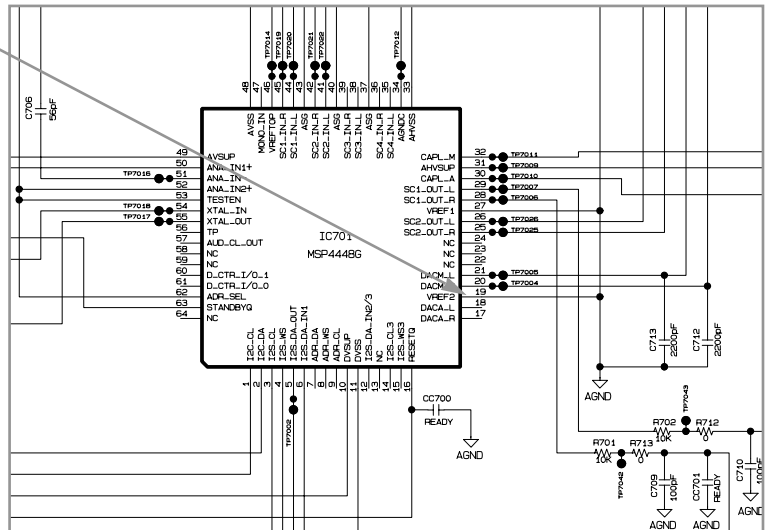


Fig.05
Analog audio output from
IC701(17, 18)



(3) No SPDIF Out for ATSC

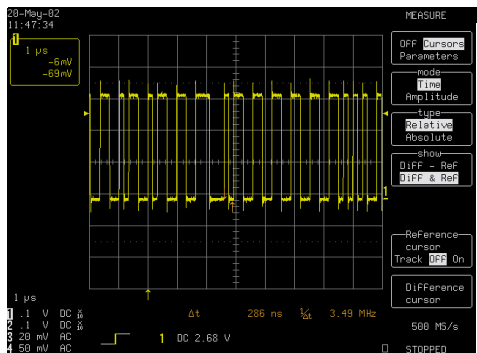
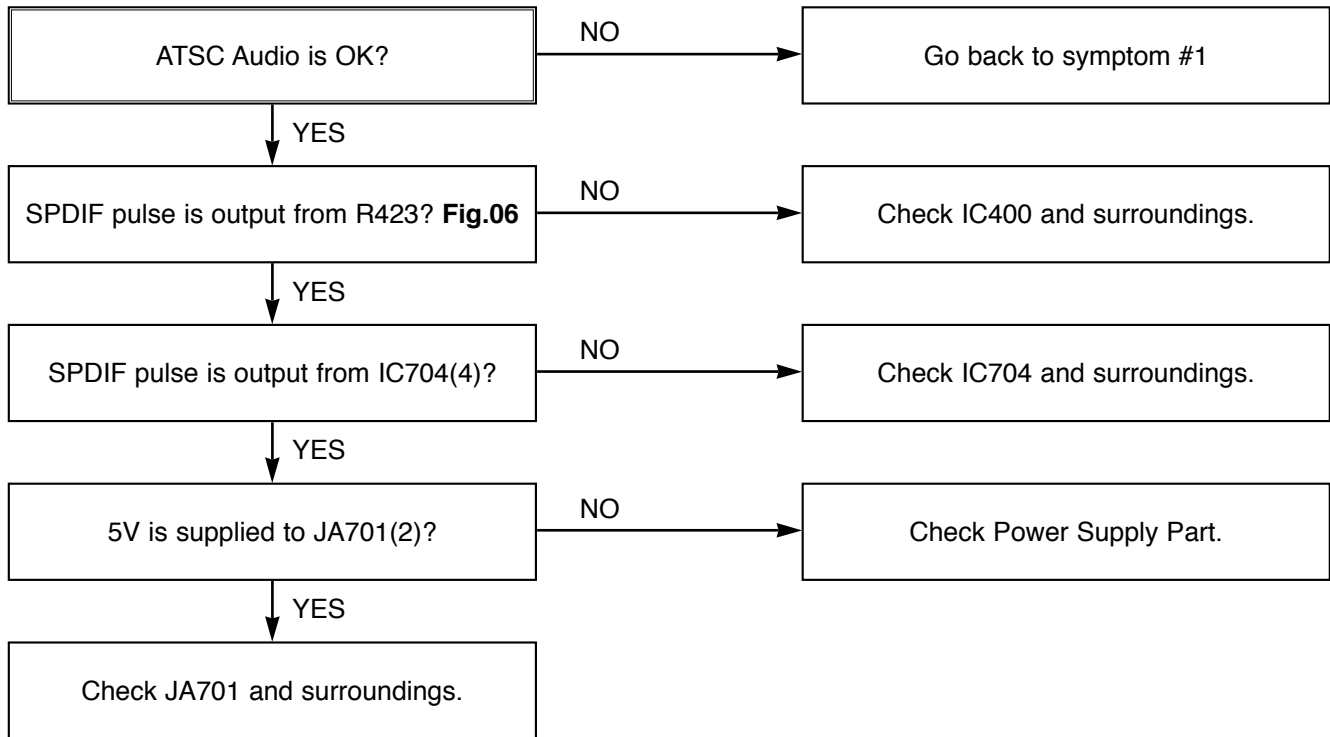
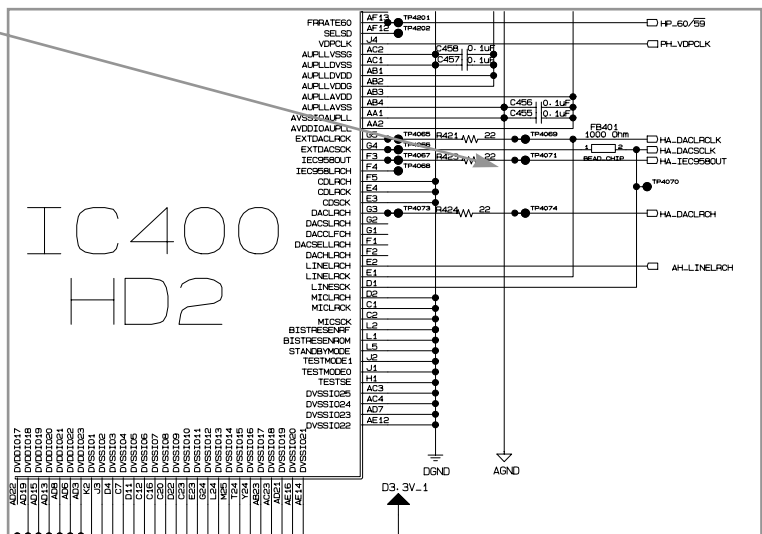


Fig.06
SPDIF output



(4) No SPDIF Out for ATSC

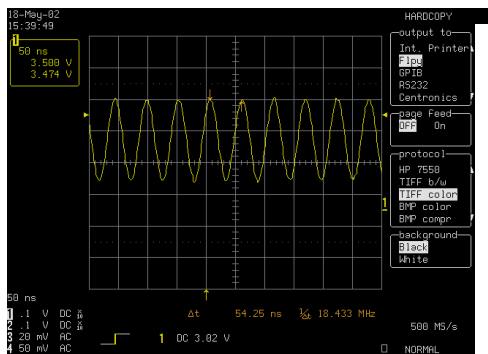
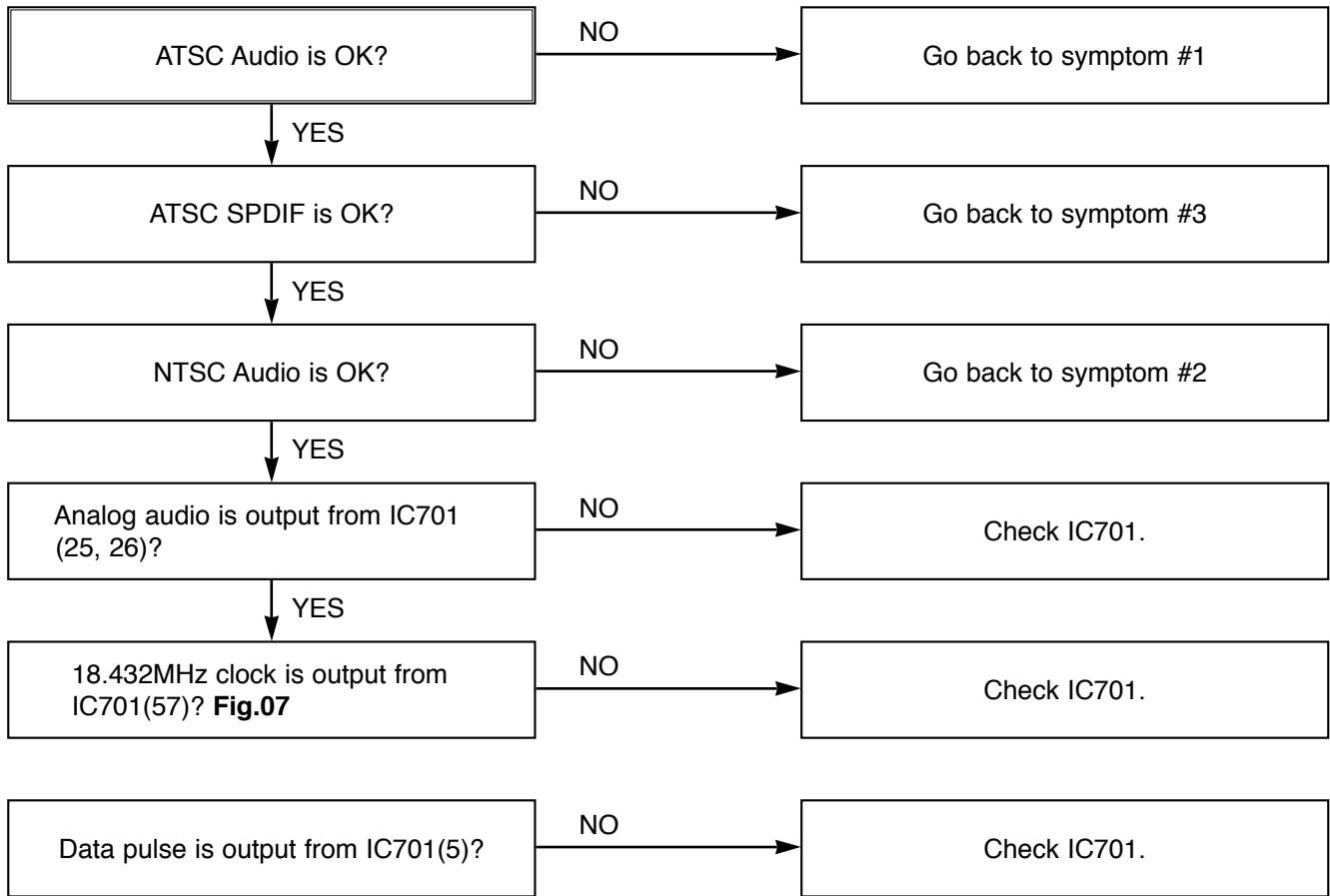
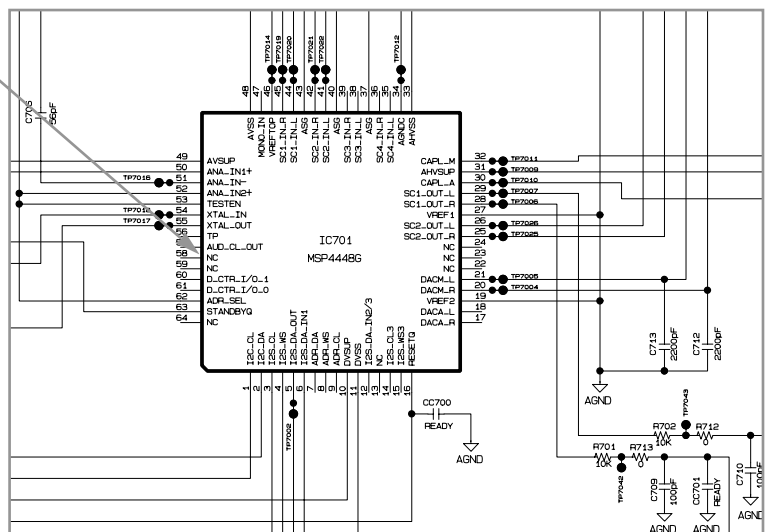
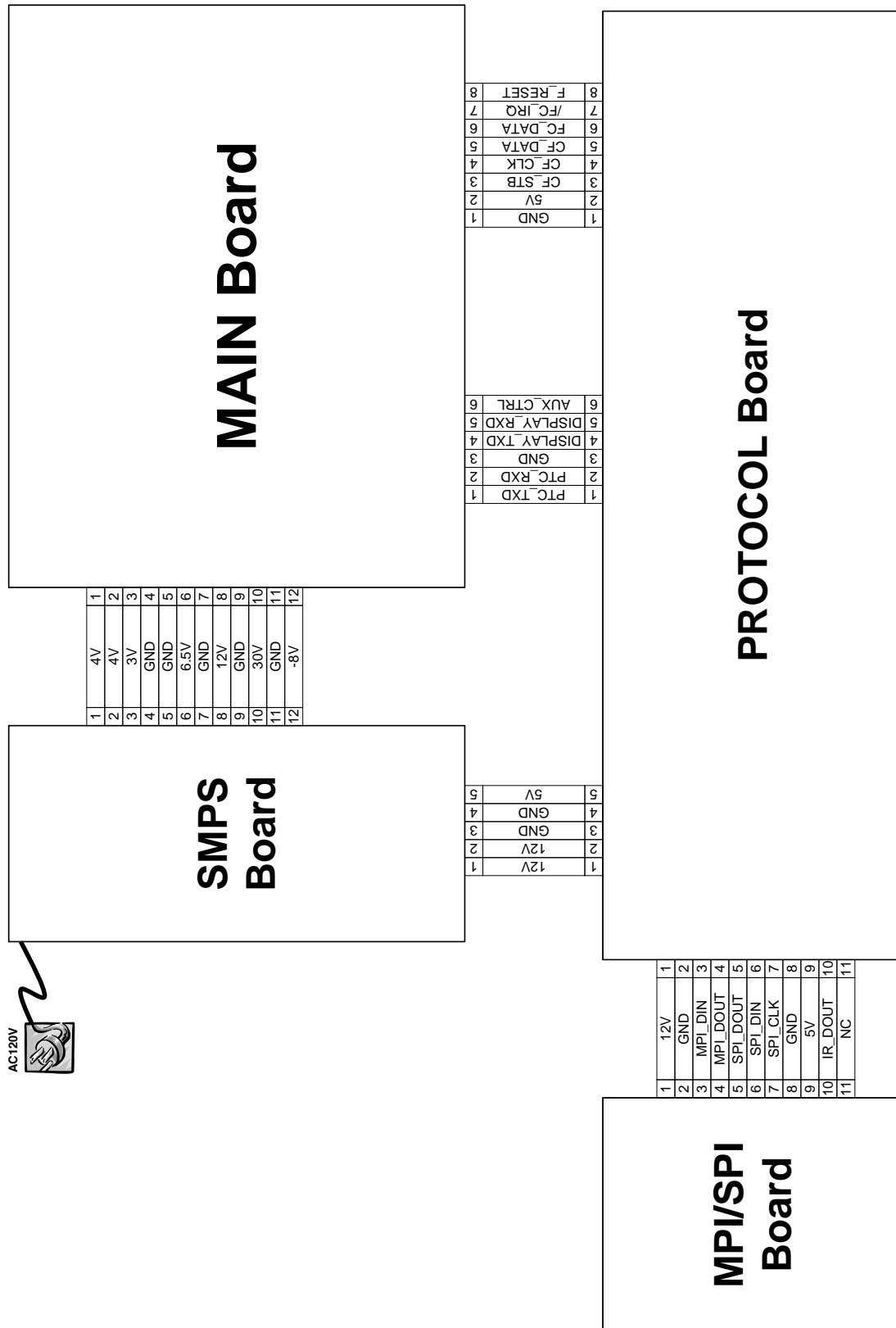


Fig.07
18.432MHz clock output from IC701(57)

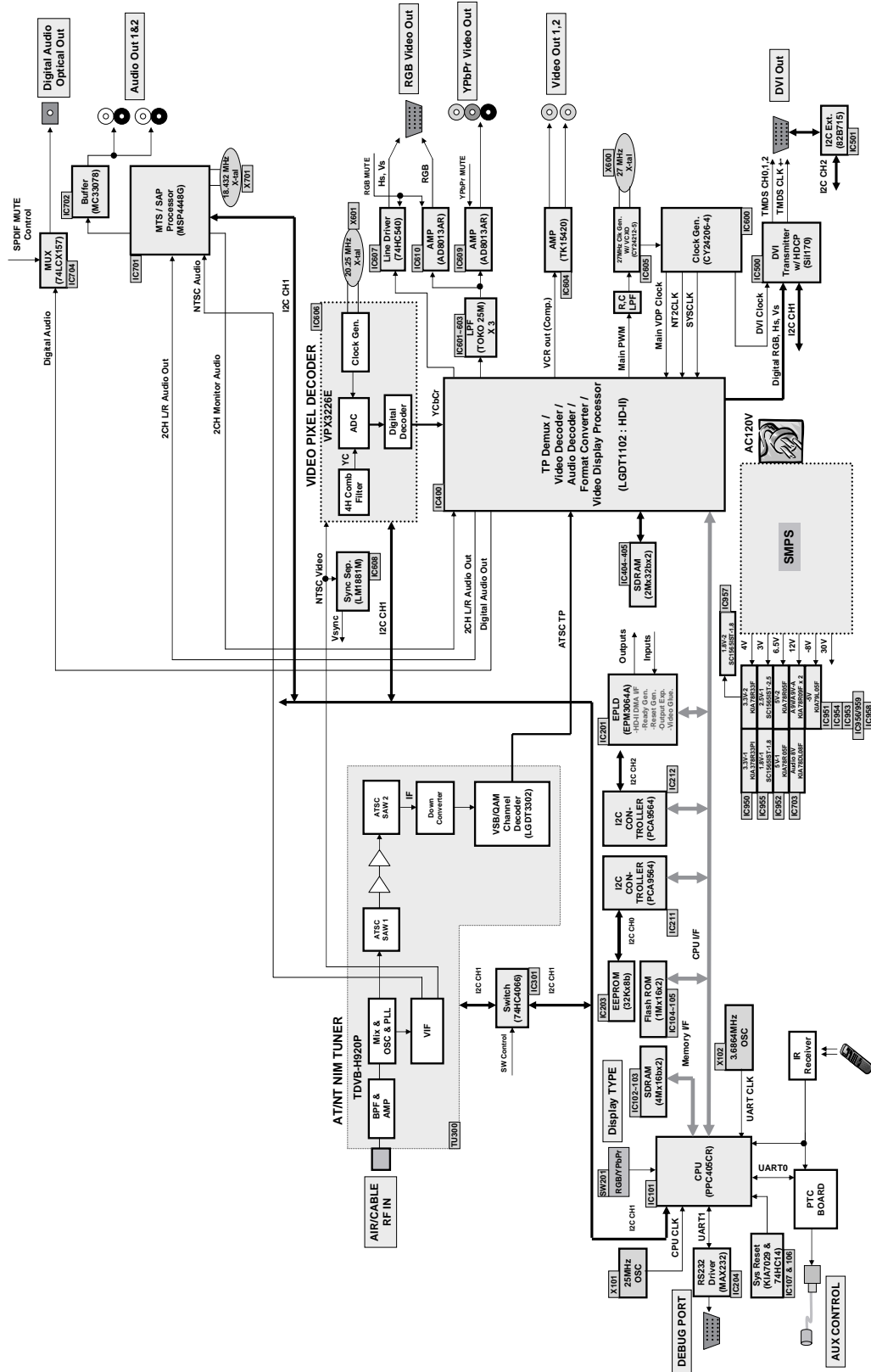


BLOCK DIAGRAM

1. OVERALL BLOCK DIAGRAM

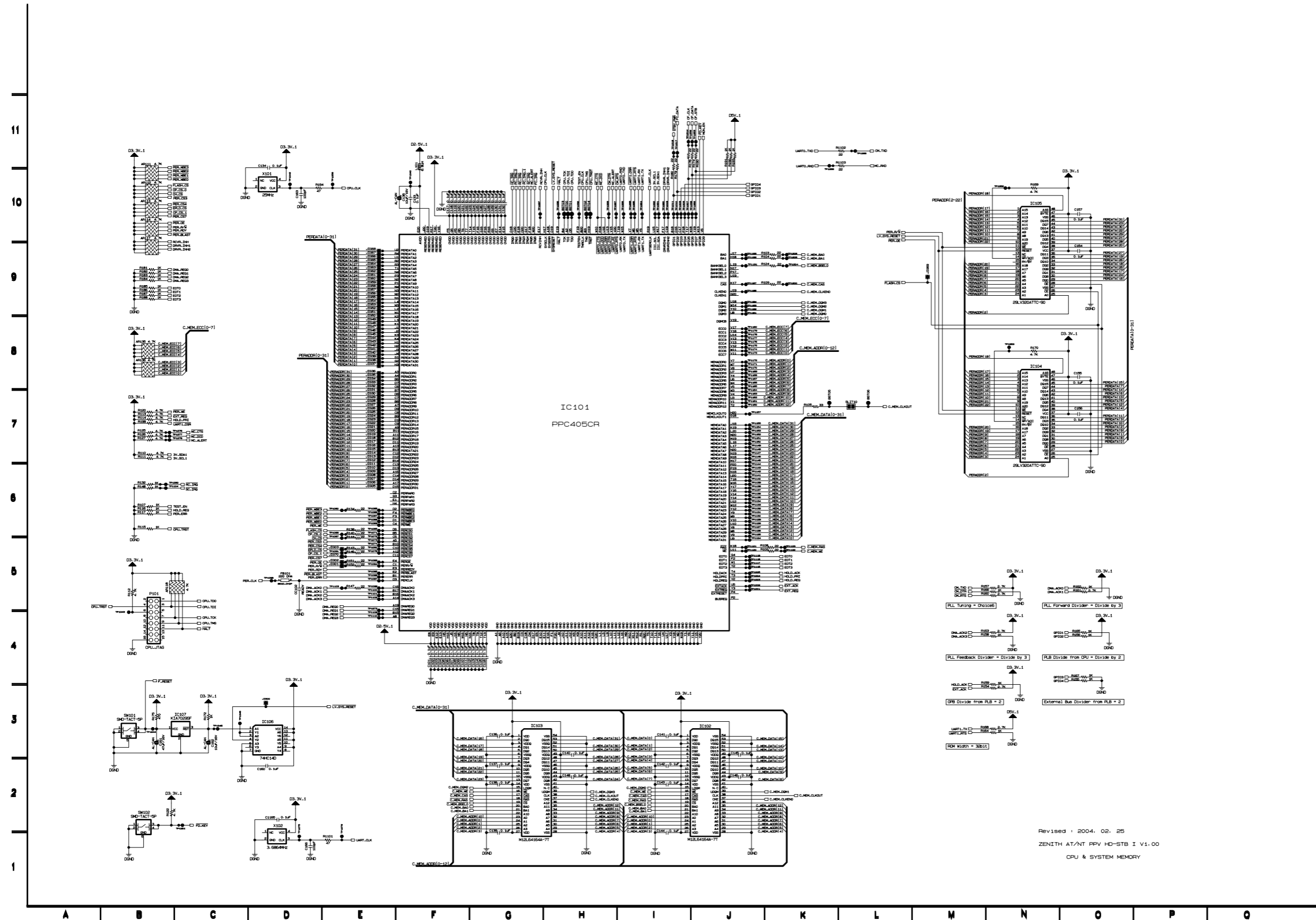


2. BLOCK DIAGRAM

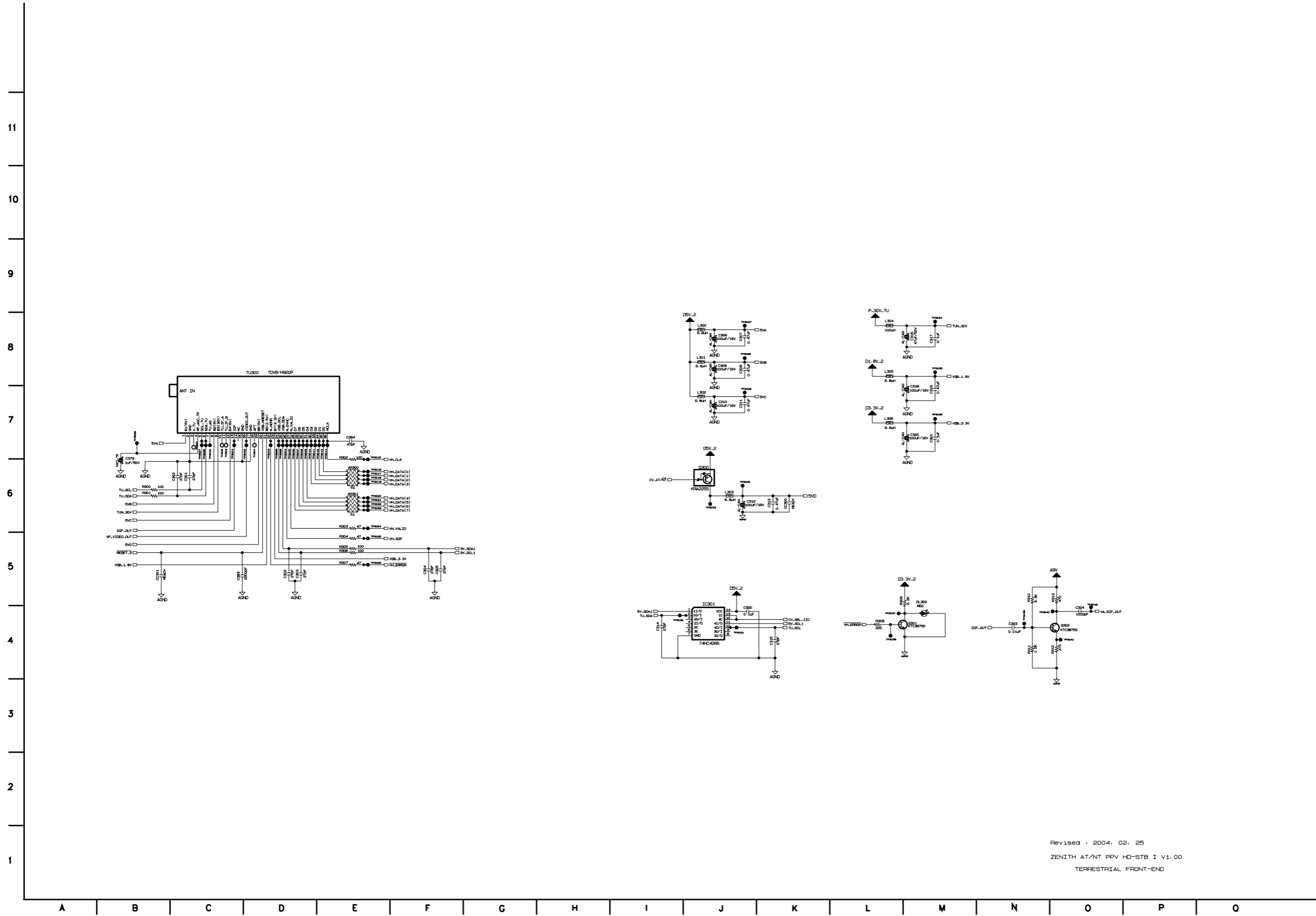


CIRCUIT DIAGRAMS

1. CPU & SYSTEM MEMORY CIRCUIT DIAGRAM

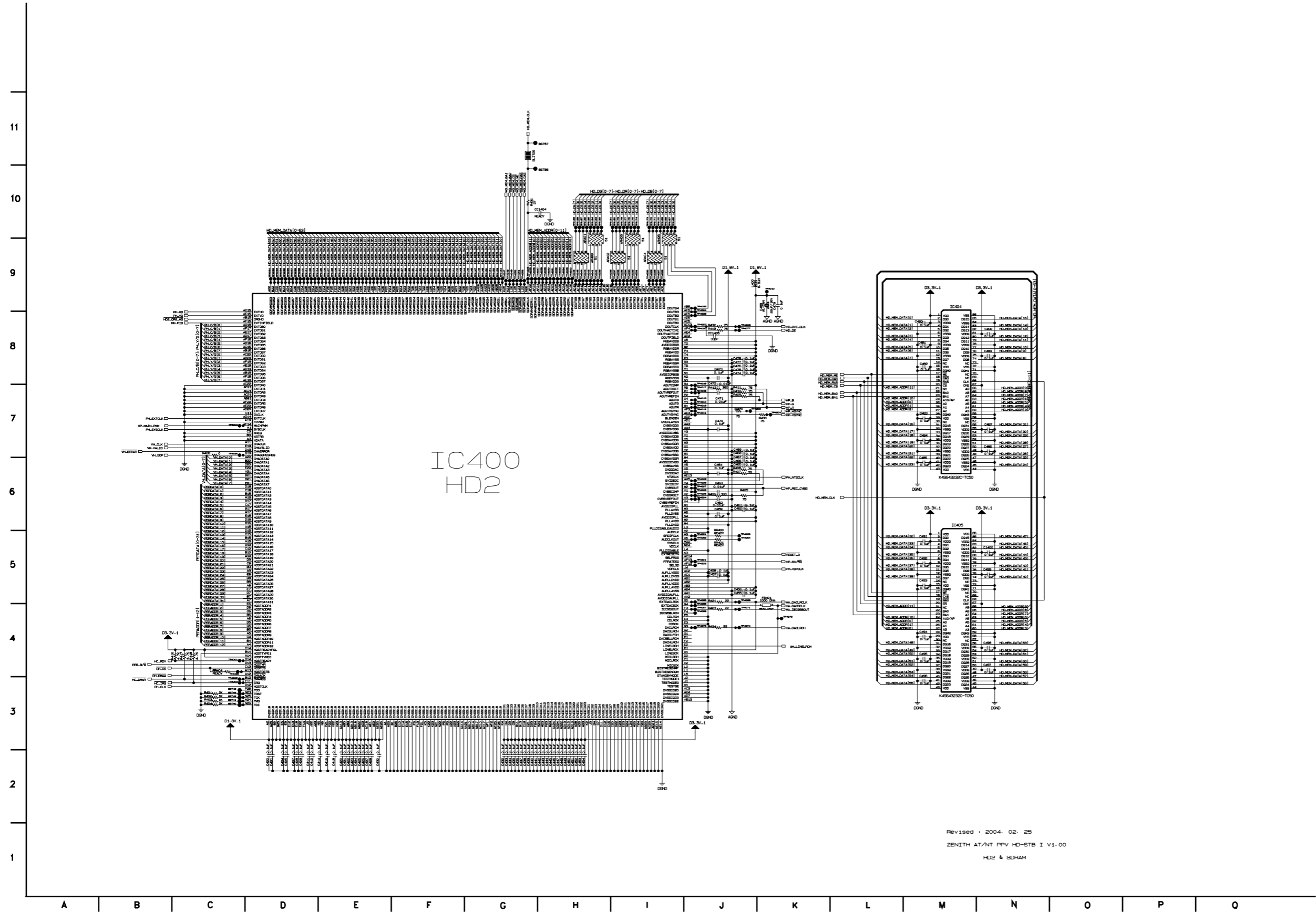


3. TERRESTRIAL FRONT_END CIRCUIT DIAGRAM



Revised : 2004. 02. 25
 ZENITH AT/NT PPV HD-STB I V1.00
 TERRESTRIAL FRONT-END

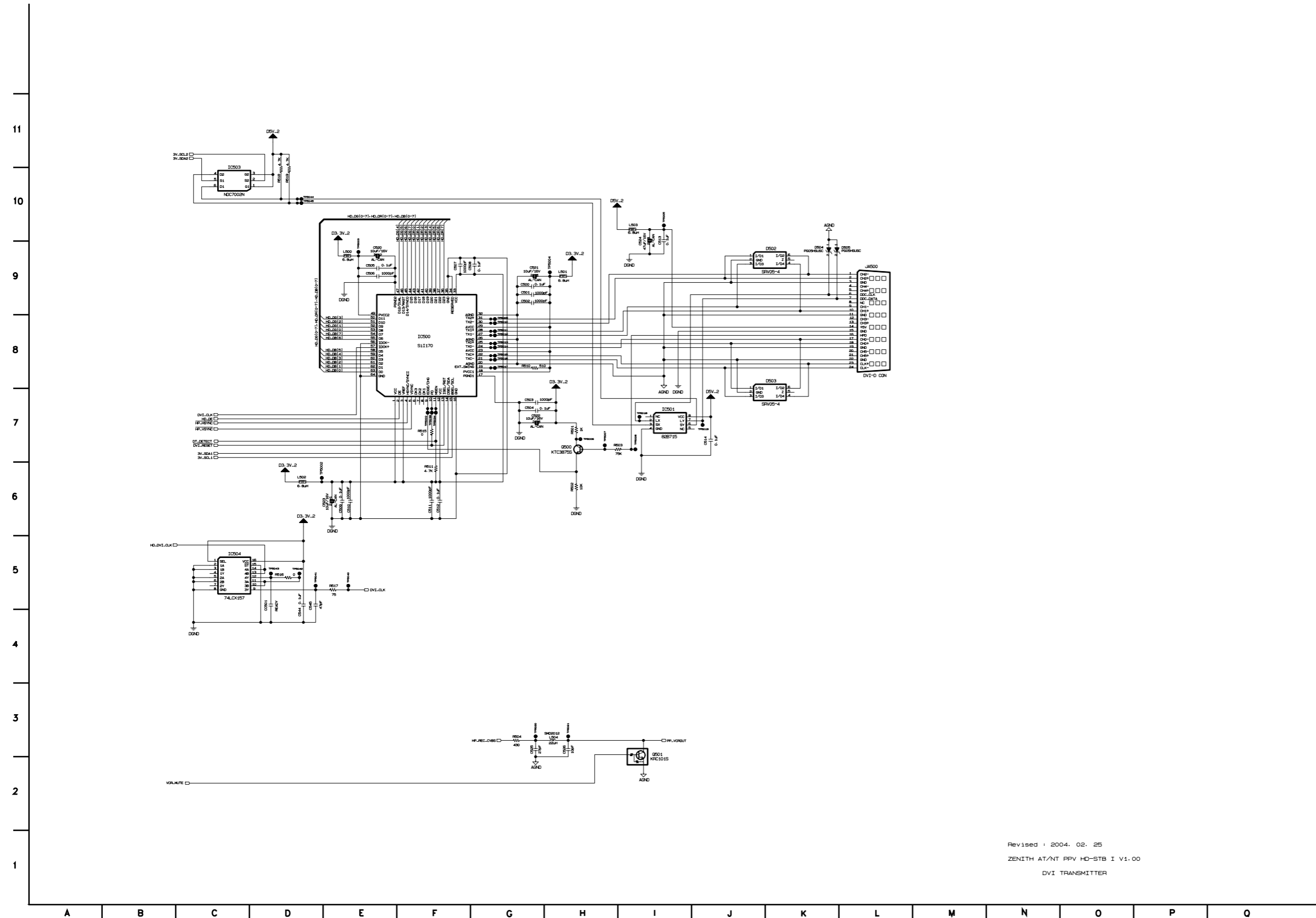
4. HD2 & SDRAM CIRCUIT DIAGRAM



IC400
HD2

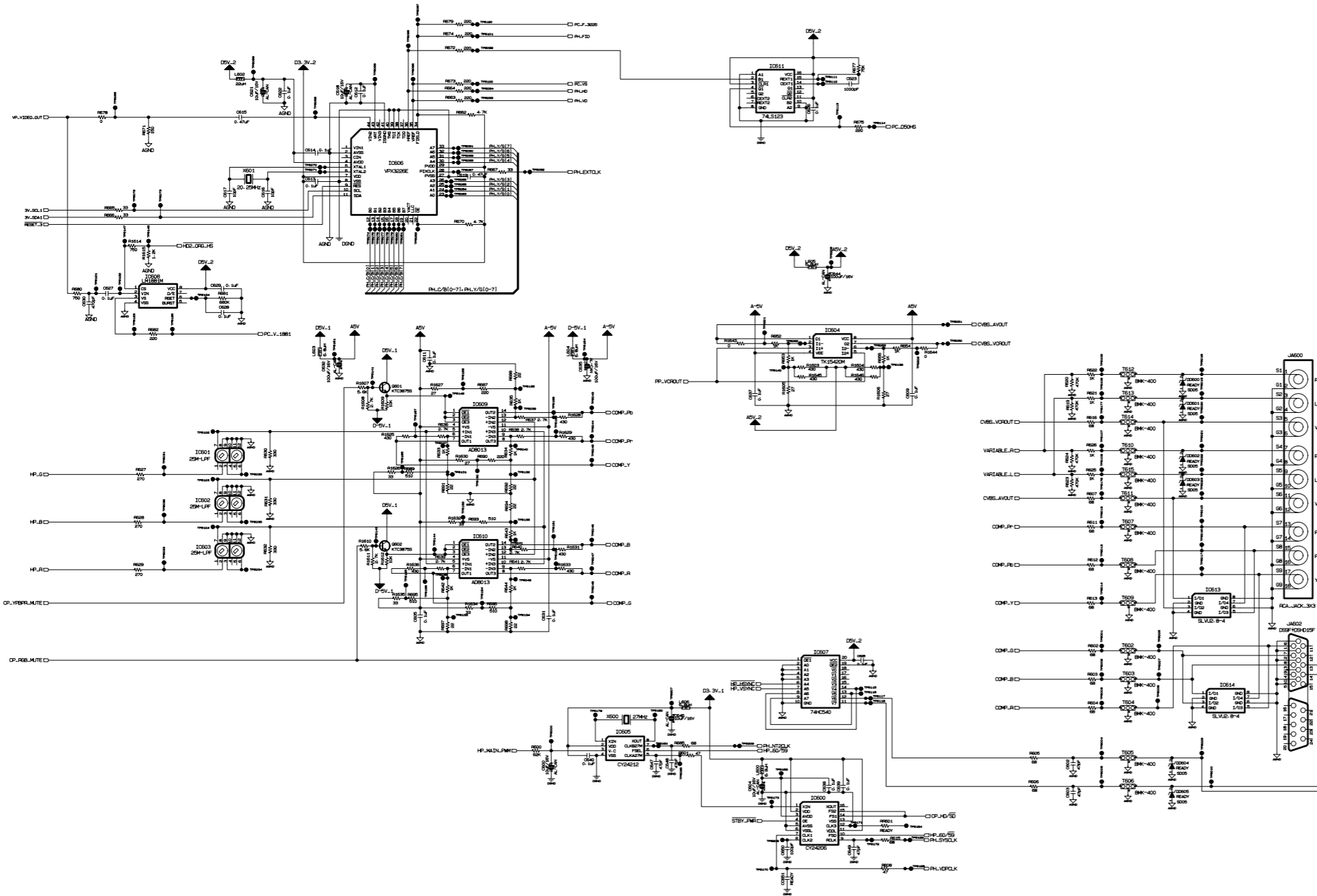
Revised : 2004. 02. 25
ZENITH AT/NT PPV HD-STB I V1.00
HD2 & SDRAM

5. DVI TRANSMITTER CIRCUIT DIAGRAM



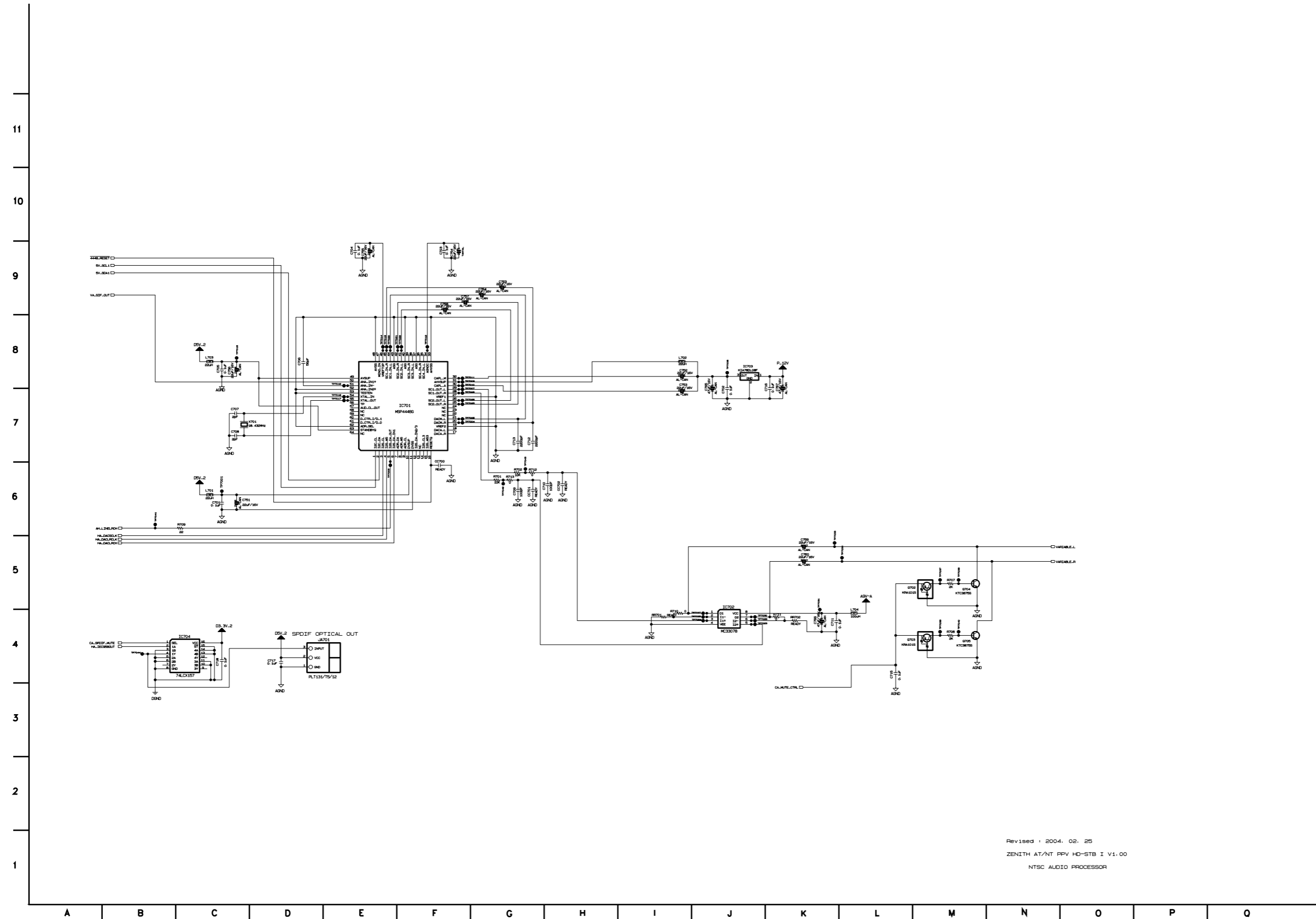
Revised : 2004. 02. 25
 ZENITH AT/NT PPV HD-STB I V1.00
 DVI TRANSMITTER

6. VDP I/F & DISPLAY OUTPUT CIRCUIT DIAGRAM



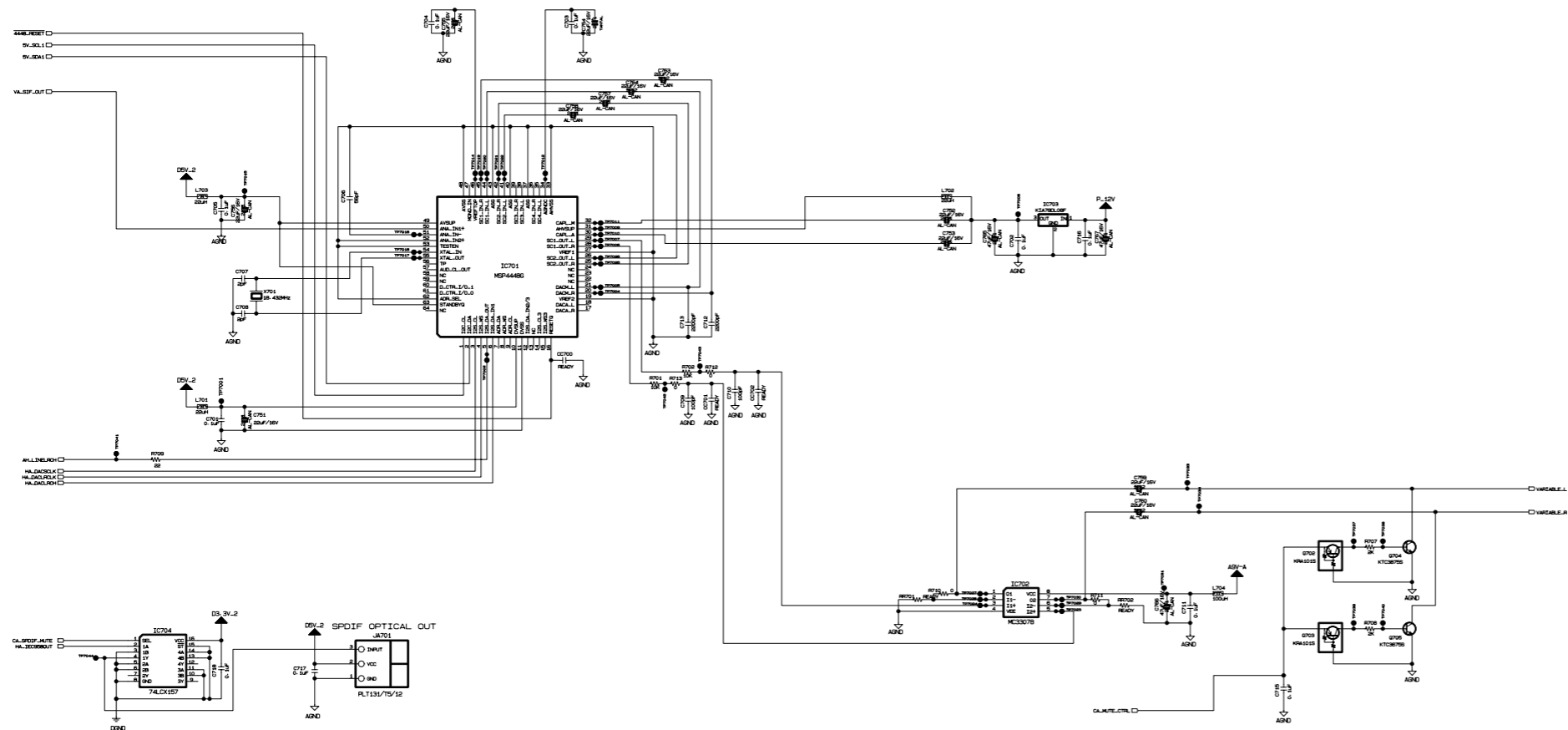
Revised : 2004. 02. 25
 ZENITH AT/NT PPV HD-STB I V1.00
 VDP I/F & DISPLAY OUTPUT

7. NTSC AUDIO PROCESSOR CIRCUIT DIAGRAM



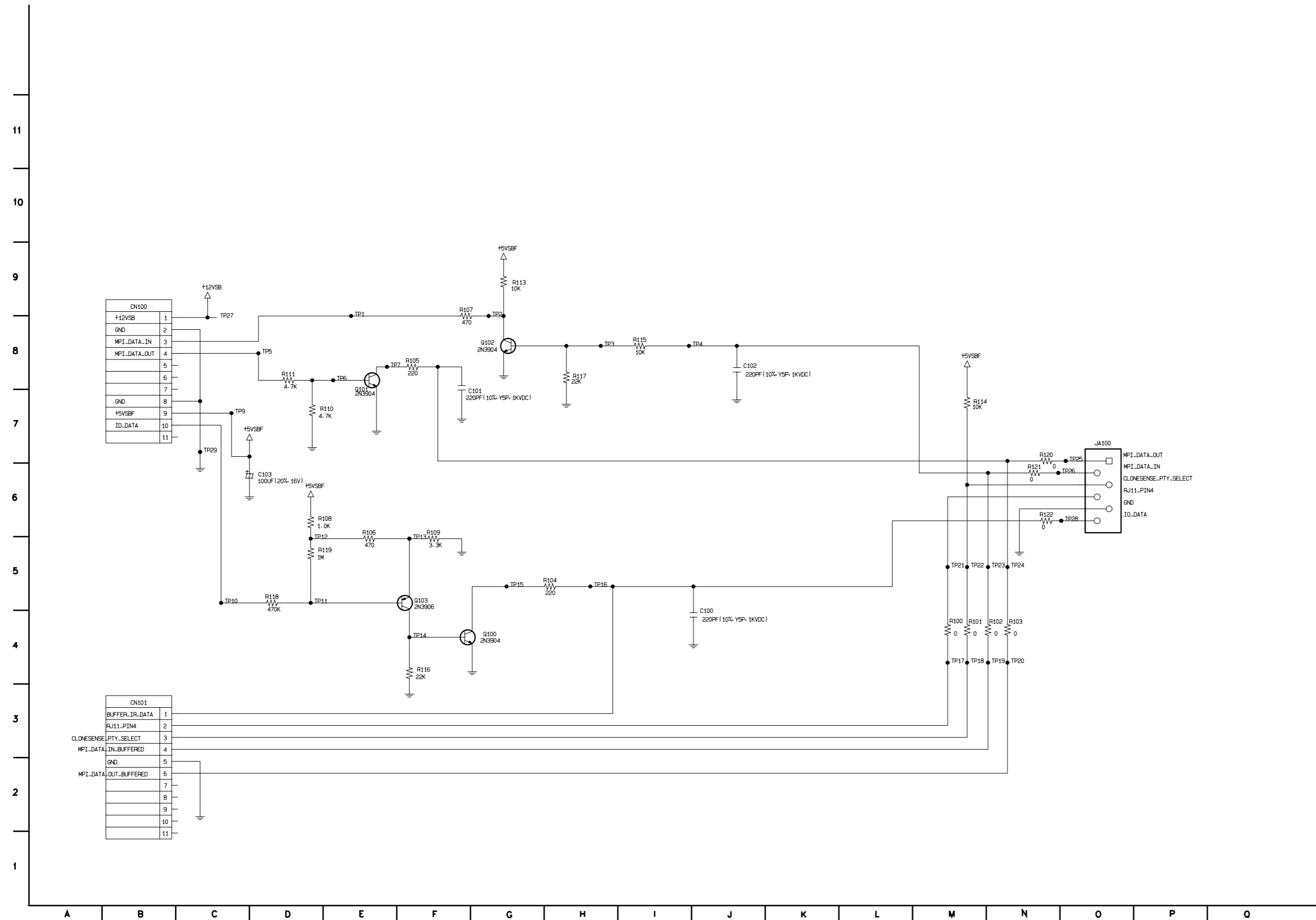
Revised : 2004. 02. 25
 ZENITH AT/NT PPV HD-STB I V1.00
 NTSC AUDIO PROCESSOR

8. POWER REGULATION CIRCUIT DIAGRAM

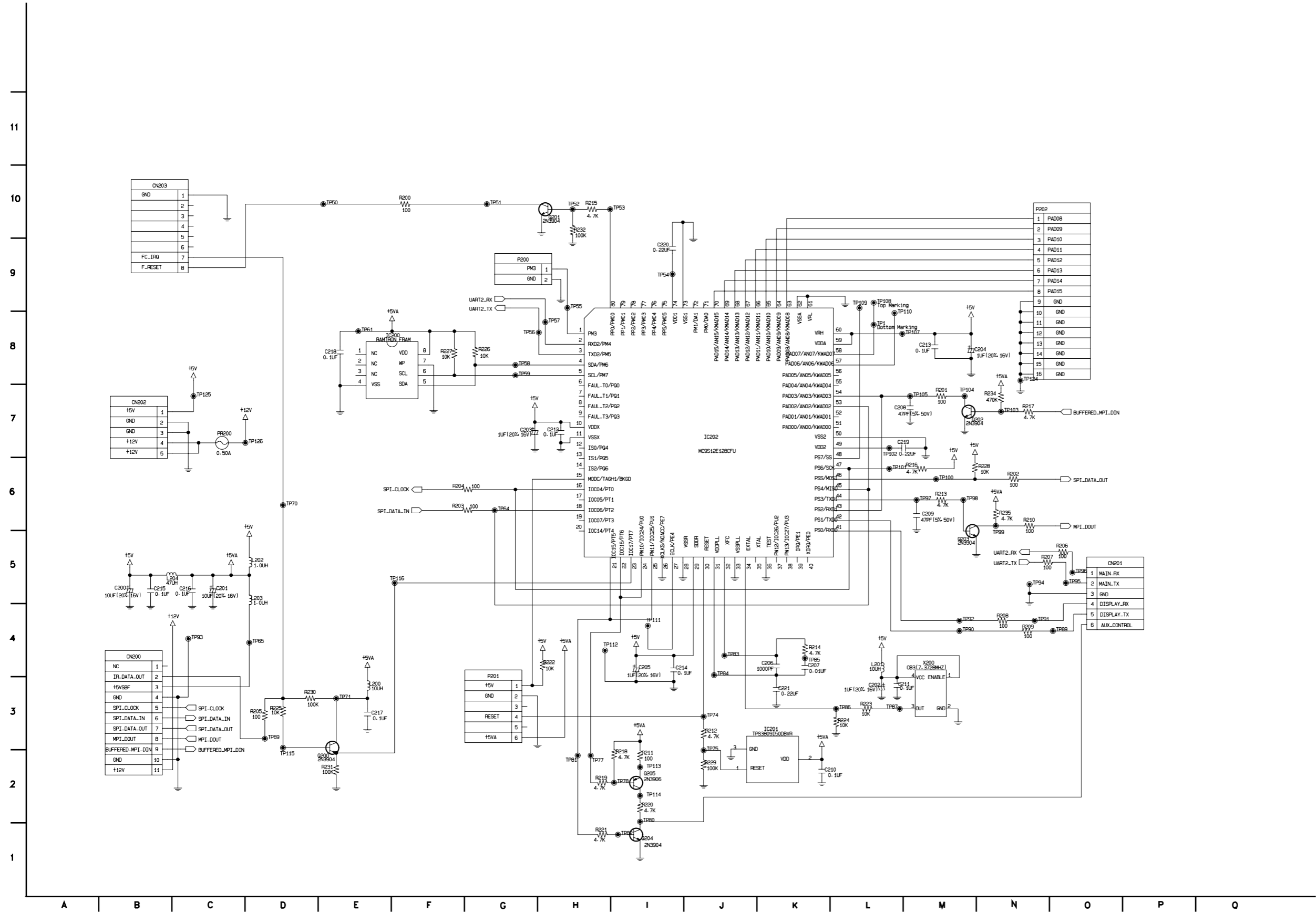


Revised : 2004. 02. 25
ZENITH AT/NT FPV HD-STB I V1.00
NTSC AUDIO PROCESSOR

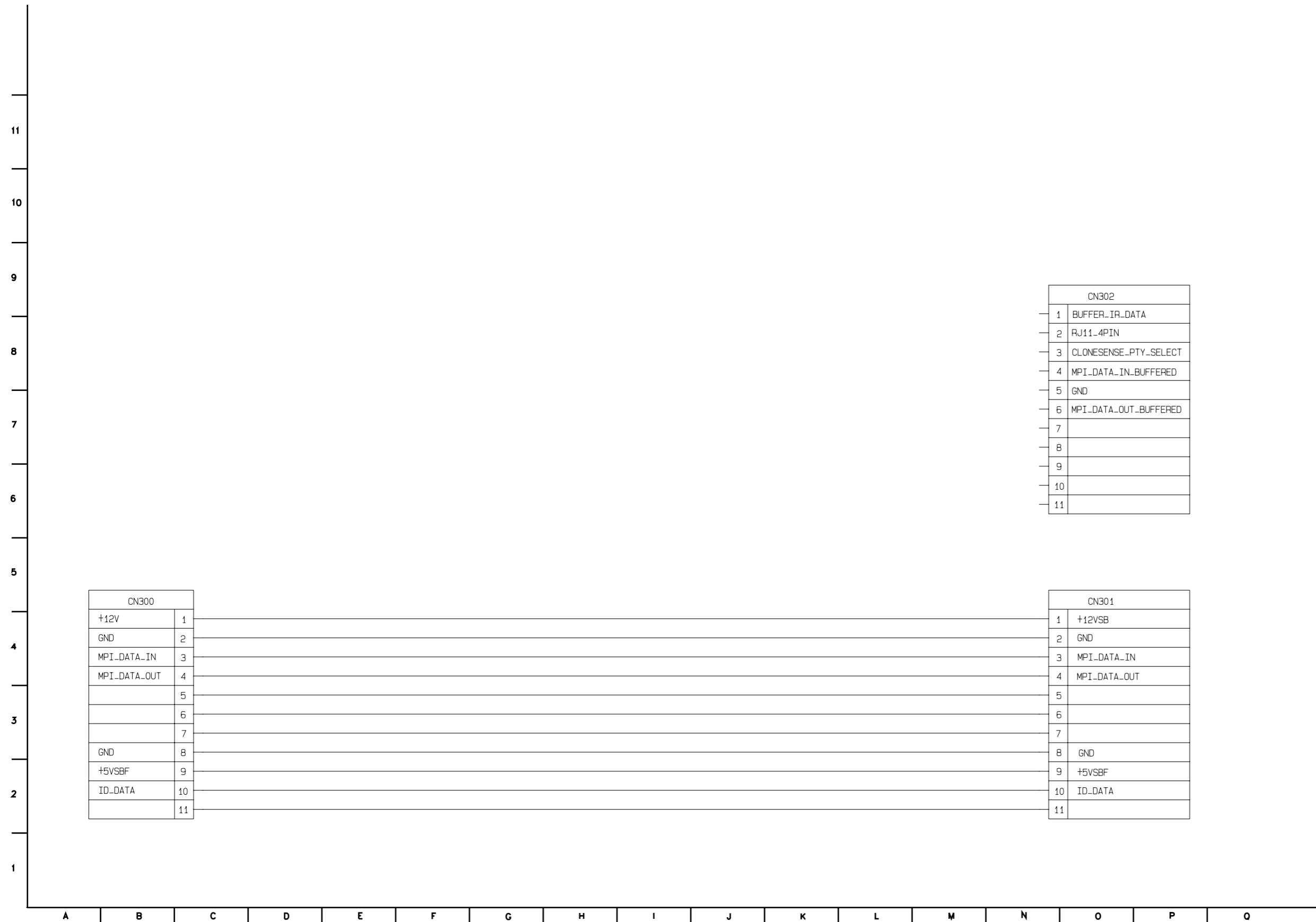
9. MPI CIRCUIT DIAGRAM



10. PTC CIRCUIT DIAGRAM

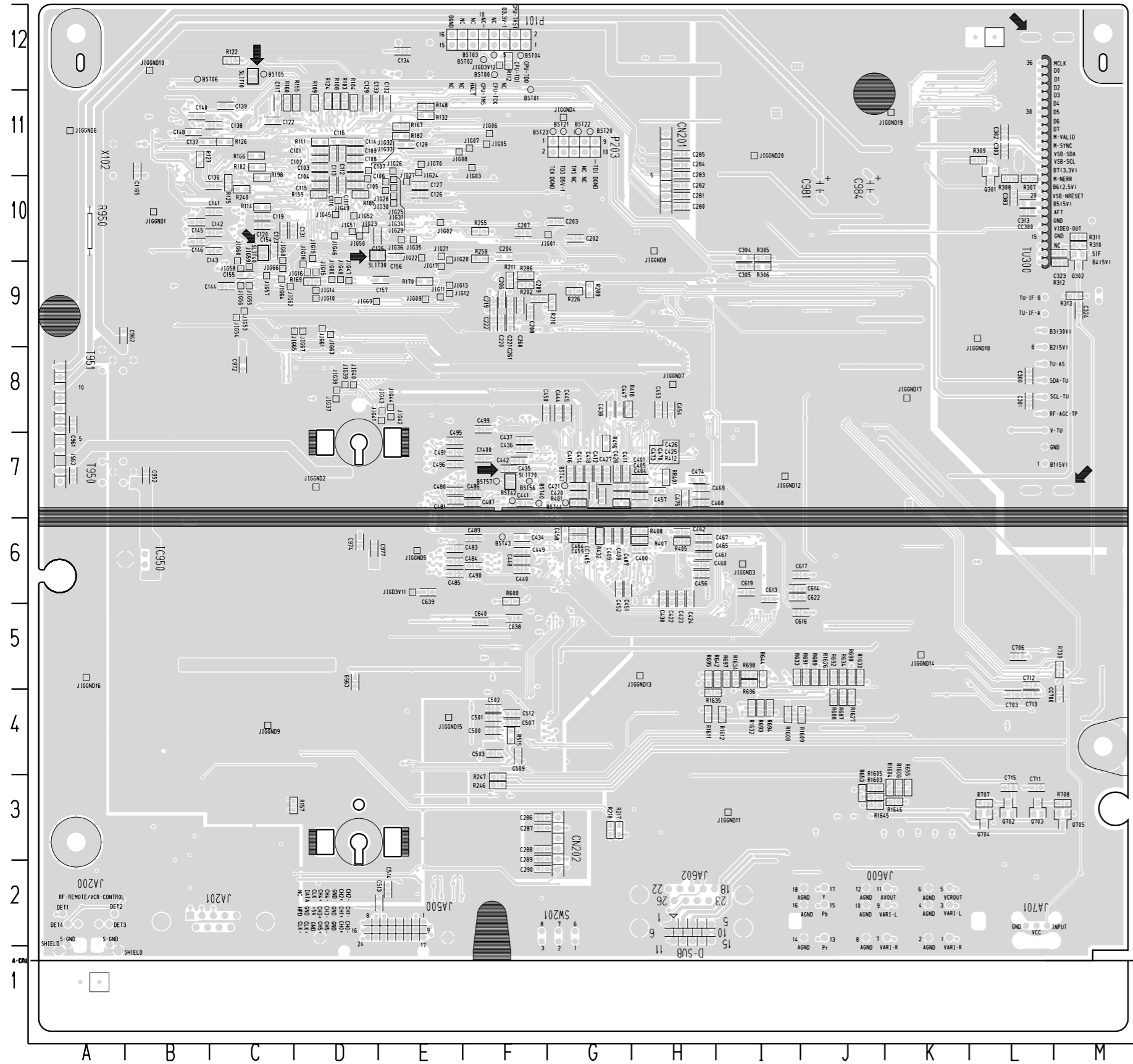


11. BACK PLANE CIRCUIT DIAGRAM

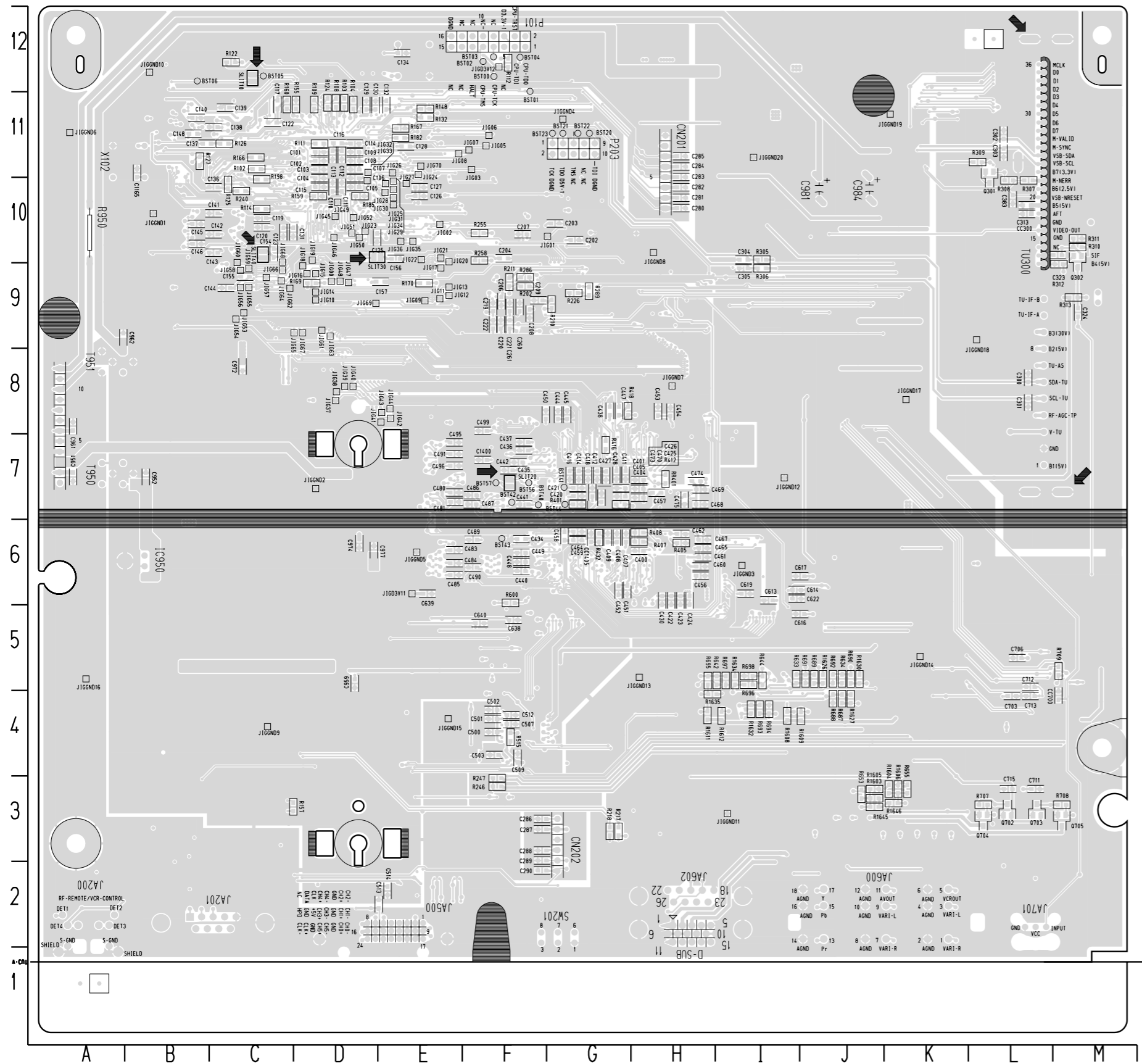


PRINTED CIRCUIT DIAGRAMS

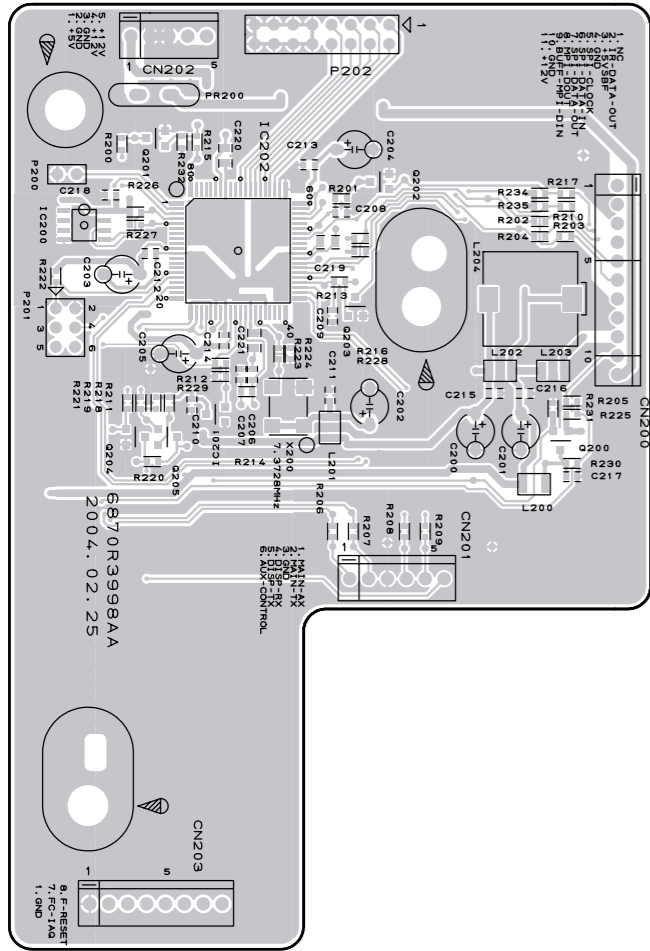
1. DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(TOP)



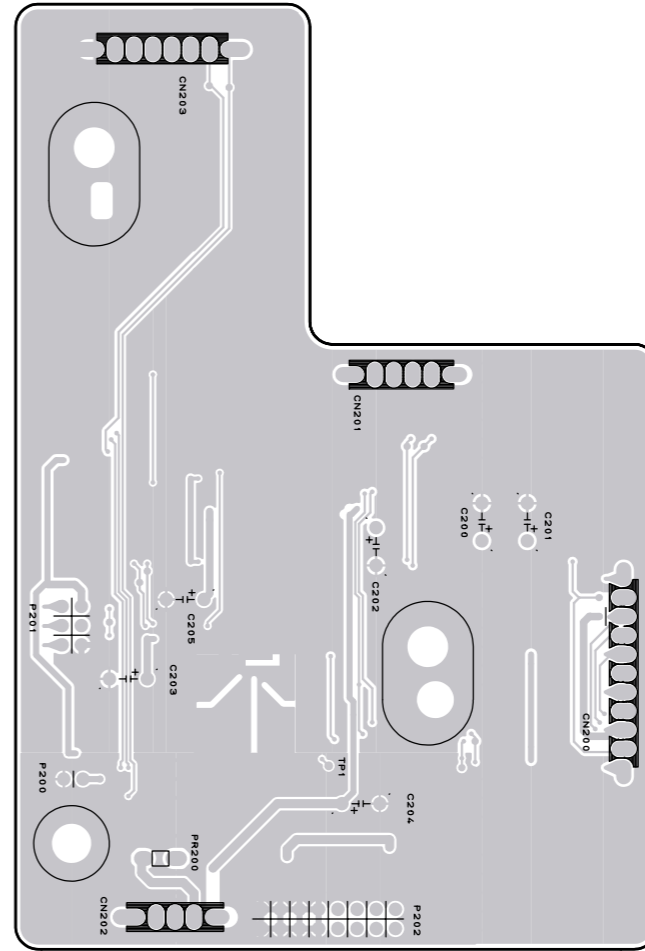
2. DIGITAL MAIN PRINTED CIRCUIT DIAGRAMS(BOTTOM)



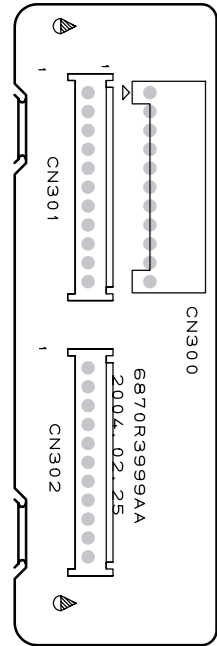
4. PTC PRINTED CIRCUIT DIAGRAM (TOP VIEW)



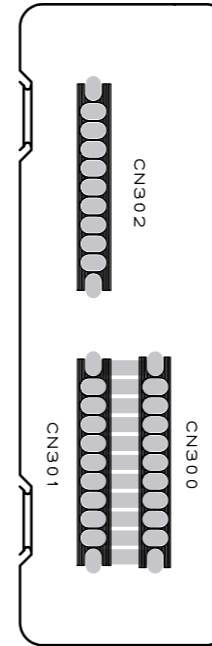
(BOTTOM VIEW)



**5. BACK PLANE PRINTED CIRCUIT DIAGRAM
(TOP VIEW)**



(BOTTOM VIEW)



SECTION 4 REPLACEMENT PARTS LIST

MODEL : LST-4600A.AA1ULL (LGEUS)

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
*** INDIVIDUAL PARTS ***						
		250	3110R-V030A	CASE	TOP(LST-4600A) PRESS	
		264	1BK-0512391	BOLT,HEXAGON SOCKET HEAD	D5.1 L7.0 STS 430	
		300	6410RADK10A	POWER CORD	KJP-120/KJC-303 3PIN KUKJE UL/	
		465	353-046K	SCREW,DRAWING	SPECIAL (3X10 B.K)	
		467	353-051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		471	353-051H	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FNM TB ROU	
		472	353-051K	SCREW,DRAWING	+ 2 D3.0 - MSWR3/FN L23.5 X13.	
*** PACKING ACCESSORY ***						
		801	3835RB0001Q	INSTRUCTION ASSEMBLY	SETTOP BOX LST-4600A_LGEUS_ENG	
		802	3890R-C120E	BOX	LST-4600A AA1UZA SW3-A STB	
		803	3920R-E115A	PACKING	SETTOP BOX LST-4600NEW 130 STB	
		804	3858R-S001A	SHEET (MECH)	Packing LDPE 600M 630MM 0.5 VC	NSP
		806	6850R-NAA81	CABLE,COAXIAL	1P AUDIO PLUG TO 2P RCA CABLE(
		822	6850R-TIA81	CABLE,D-SUB	RS232 9P MALE-FEMALE HYOSUNG 1	
		823	6850R-T0A83	CABLE,D-SUB	RGB 15P MALE TO MALE(HAT-60041	
*** BRACKET ASSEMBLY ***						
		266	4811R-0252A	BRACKET ASSEMBLY	SETTOP BOX LST-4600A PPV	
		465	353-046K	SCREW,DRAWING	SPECIAL (3X10 B.K)	
*** CHASSIS ASSEMBLY ***						
		A44	3141RFB001E	CHASSIS ASSEMBLY	LST-4600A	
		261	5040R-0069F	RUBBER	FOOT(SILICONE SPONGE DS-30 T=	
		262	6620K00006A	SOCKET(CIRC),POWER	KJA-ET-0-0007 AC UL/CSA 3PPIN	
		263	6631R-Y014A	CONNECTOR ASSEMBLY	KHC-ET-0-0015 KSD AC INLET 6P	
		320	3720R-D109A	PANEL,VIDEO	VCR BACK(LST-4600A) PRESS	
		330	3140R-V011A	CHASSIS	MAIN(LST-4600) PRESS	
		468	353-046N	SCREW,DRAWING	SPECIAL(3X8 BK.)	
		469	1SZZR-0076A	SCREW,DRAWING	+ 2 D4.0 L8.0 SWCH18A/NI	
*** BOARD ASSEMBLY, TOTAL POWER ***						
		A47	3501R-2259A	BOARD ASSEMBLY	SETTOP BOX LST-3600 EVENT_PPV_	
		BD01	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	0DD160000DA	DIODE,RECTIFIERS	S1WBA60 BK SHINDENGEN - 600V -	
		C101	624-088F	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C102	624-088F	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C103	0CE227JR6A0	CAPACITOR,FIXED ELECTROLYTIC	220UF SMH,HC 250V 20% BULK VNS	
		C105	0CQ1031Y519	CAPACITOR,FIXED FILM	0.01UF D 630V 10% PE NI TP5	
		C106	624-087B	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	
		C108	0CE1064K638	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	
		C109	0CQ4731N409	CAPACITOR,FIXED FILM	0.047UF D 100V 5% PE TP5	
		C110	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C111	0CG2220U630	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C112	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C113	0CN4710K518	CAPACITOR TUBULA(HIGH DIELE)	470P 50V K B TA26	
		C120	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C122	0CE2282F611	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMF 16V 20% BK7.5 FL	
		C123	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C124	0CE2282F611	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMF 16V 20% BK7.5 FL	
		C125	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C127	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C128	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C129	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C134	0CE108EH610	CAPACITOR,FIXED ELECTROLYTIC	1000UF KMG 25V 20% BULK FL	
		C152	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C154	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		D101	0DD010009CA	DIODE,RECTIFIERS	EG01C TP SANKEN - - - - -	
		D101	0DD221009AA	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D102	0DR104009BA	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D105	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D121	4811R-0043A	BRACKET ASSEMBLY	FMB-G24H_HEAT SINK	
		D122	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D122	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
		D123	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D123	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
		D124	0DR104510AA	DIODE,RECTIFIERS	B10A45V1 BK KEC TO220 45V 10A	
		D125	0DR104009BA	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D126	0DR104009BA	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D129	0DRFC00091A	DIODE,RECTIFIERS	FFPF06U40STU FAIR CHILD ST TO2	
		D152	0DR104510AA	DIODE,RECTIFIERS	B10A45V1 BK KEC TO220 45V 10A	
		D153	0DR104510AA	DIODE,RECTIFIERS	B10A45V1 BK KEC TO220 45V 10A	
		F101	0FS1601B51B	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS /	
		FH01	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
		FH02	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
		IC101	0IPMGSK002A	IC,POWER MANAGEMENT	STR-G6352T SANKEN 5PIN TO220 S	
		IC103	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
		IC103	0ISS431000A	IC,SAMSUNG ELECTRONICS	KA431AZ (LM431AZ)	
		IC151	0IPMGSH010A	IC,POWER MANAGEMENT	PQ12RD1L SHARP 4PIN TO-220 ST	
		IC151	0IKE781200S	IC,KEC	KIA78R12PI CU 4P TO-220IS ST 1	
		IC151	0IPMGFA017A	IC,POWER MANAGEMENT	KA78R12TSTU FAIRCHILD 4P TO-22	
		IC153	0IPMGFA032A	IC,POWER MANAGEMENT	KA78R05TSTU FAIRCHILD 4P TO-22	
		IC153	0IPMGKE018A	IC,POWER MANAGEMENT	KIA78R05API CU KEC 4P TO-220IS	
		L101	6200RLB007C	FILTER(CIRC),EMC	LFOR SERIES(TOROIDAL COIL) SAM	
		L102	616-145H	FILTER(CIRC),DRAWING	SHT LFS2020V4-04350	
		L121	6140RCC009A	COIL,RF	BAR CHOKE COIL 2 PIN 10 UHCCAR	
		L122	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		L123	633-088G	COIL,CHOKE	22MH TOKO 5MM TP	
		R100	0RD1504H632	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R101	0RD1803F608	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 0.05 TA26	
		R102	0RD1803F608	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 0.05 TA26	
		R103	0RS5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R105	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R106	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R107	614-007A	RESISTOR	2.7/2W CEMENT SMPS V	
		R108	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R109	0RS0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R121	0RD1800F608	RESISTOR,FIXED CARBON FILM	180 OHM 1/6 W 5% TA26	
		R122	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R123	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R124	0RN1801F408	RESISTOR,FIXED METAL FILM	1.8K OHM 1/6 W 1% TA26	
		R125	0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1% TA26	
		R126	0RD1200F608	RESISTOR,FIXED CARBON FILM	120 OHM 1/6 W 5% TA26	
		R128	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R129	0RF0300F708	RESISTOR,VARIABLE[CARBON FILM]	0.3 OHM 1/6 W 10% TA26	
		R156	0RD3901F608	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R157	0RD3901F608	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R161	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R162	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R163	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		V101	656-004C	VARISTOR,DRAWING	SVC681D-10A SAMHWA 4.O CUT	
		ZD152	0DZ332609BA	DIODE,ZENER	UZ-33BSB 26MM TP PYUNG CHANG D	
*** BOARD ASSEMBLY ***						
		A48	3501R-3997A	BOARD ASSEMBLY	SETTOP BOX LST-4600A	
		A48A	6871R-3997A	PWB(PCB) ASSEMBLY,TOTAL	LST-4600A MPI CARD	
		A48B	4811R-0069A	BRACKET ASSEMBLY	SETTOP BOX SUPPORT(LST-4600)	
		271	3301R-B001A	PLATE ASSEMBLY	LST-4600A	
		272	1WSV1200084	WASHER,SPRING LOCK	NO RULE D12.0 SUS 304	
		273	1NHD8220060	NUT,HEXAGON	4 D3/8"-16 NO RULE BSP/BN,BSW/	
		274	4930R-0500A	HOLDER	VCR GUIDE RAIL(LST-4600A) MOLD	
		275	4810R-0233A	BRACKET	VCR LST-4600A PRESS SUPPORT	
		465	353-046K	SCREW,DRAWING	SPECIAL (3X10 B.K)	
		467	353-051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		C100	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		C101	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		C102	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		C103	0CE107EF638	CAPACITOR,FIXED ELECTROLYTIC	100UF KMG 16V 20% FM5 TP 5	
		C200	0CE106BK638	CAPACITOR,FIXED ELECTROLYTIC	10UF KME TYPE 50V 20% FM5 TP 5	
		C201	0CE106BK638	CAPACITOR,FIXED ELECTROLYTIC	10UF KME TYPE 50V 20% FM5 TP 5	
		C202	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME,RG,YX 50V 0.2 FM5 TP 5	
		C203	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME,RG,YX 50V 0.2 FM5 TP 5	
		C204	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME,RG,YX 50V 0.2 FM5 TP 5	
		C205	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME,RG,YX 50V 0.2 FM5 TP 5	
		C206	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C207	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C208	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C209	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C210	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C211	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C212	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C213	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C214	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C215	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C216	0CK104CF96A	CAPACITOR,FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C217	0CK104CF96A	CAPACITOR, FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C218	0CK104CF96A	CAPACITOR, FIXED CERAMIC(HIGH D	0.1UF 1608 16V 80%,-20% X7R R/	
		C219	0CH1224F516	CAPACITOR, FIXED CERAMIC(Temp.c	0.22UF 16V 10% B(5YP) 2012 R/T	
		C220	0CH1224F516	CAPACITOR, FIXED CERAMIC(Temp.c	0.22UF 16V 10% B(5YP) 2012 R/T	
		C221	0CH1224F516	CAPACITOR, FIXED CERAMIC(Temp.c	0.22UF 16V 10% B(5YP) 2012 R/T	
		CN201	561-715F	CONNECTOR (CIRC), WAFER	GIL-G-06P-S3T2-E LG CABLE 6PIN	
		CN300	561-716K	CONNECTOR (CIRC), WAFER	GIL-G-11P-S3L2-E LG CABLE 11PI	
		IC200	0IMMRA001A	IC, MEMORIES	FM24C16A RAMTRON 8PIN, SOIC R/T	
		IC201	0IPMGTI011A	IC, POWER MANAGEMENT	TPS3809150DBVR TEXAS INSTRUMEN	
		IC202	0IMCRM0038A	IC, MICRO CONTROLLER	MC9S12E128 MOTOROLA 80PIN QFP	
		JA100	6612E00028A	JACK, MODULAR	520470-3 AMP	
		L200	0LCTD00021B	INDUCTOR, CHIP	NLV32T-100J-PF TDK R/TP	
		L201	0LCTD00021B	INDUCTOR, CHIP	NLV32T-100J-PF TDK R/TP	
		L202	0LCTD00021A	INDUCTOR, CHIP	NLV32T-1R0J-PF TDK R/TP	
		L203	0LCTD00021A	INDUCTOR, CHIP	NLV32T-1R0J-PF TDK R/TP	
		L204	0LCTD00023A	INDUCTOR, CHIP	SLF12555T-471MR49 TDK R/TP	
		PR200	0FS5000EHA8	FUSE, SLOW BLOW	500MA 60V PR-HA UL/CSA/VDE	
		Q100	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q101	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q102	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q103	0TRON80002A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3906LT1	
		Q200	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q201	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q202	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q203	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q204	0TRON80001A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3904LT1	
		Q205	0TRON80002A	TRANSISTOR, BIPOLARS	ON SEMI(MOTOROLA) MMBT3906LT1	
		R100	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R101	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R102	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R103	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R104	0RH2200D622	RESISTOR, METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R105	0RH2200D622	RESISTOR, METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R106	0RH4700C622	RESISTOR, METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R107	0RH4700C622	RESISTOR, METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R108	0RH1001C622	RESISTOR, METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R109	0RH3301C622	RESISTOR, METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R110	0RH4701C622	RESISTOR, METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R111	0RH4701C622	RESISTOR, METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R113	0RH1002C622	RESISTOR, METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R114	0RH1002C622	RESISTOR, METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R115	0RH1002D622	RESISTOR, METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R116	0RH2202C622	RESISTOR, METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R117	0RH2202C622	RESISTOR, METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R118	0RH4703C622	RESISTOR, METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R119	0RH1004C622	RESISTOR, METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R120	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R121	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R122	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R200	0RH1000C622	RESISTOR, METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R201	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R202	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R203	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R204	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R205	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R206	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R207	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R208	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R209	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R210	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R211	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R212	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R213	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R214	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R215	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R217	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R218	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R219	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R220	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R221	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R222	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R223	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R224	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R225	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R226	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R227	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R228	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R229	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R230	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R231	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R232	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R234	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R235	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		X200	6204B47372Z	OSCILLATOR	VCXO CHUNGHO/SOUTH STAR 7.3728	
*** BOARD ASSEMBLY (MAIN) ***						
		A46	6871R-3991A	PWB(PCB) ASSEMBLY,TOTAL	LST-4600A MAIN	
		AR111	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR111	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR112	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR112	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR113	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR113	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR114	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR114	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR117	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR117	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR118	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR118	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR135	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		AR135	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR136	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR136	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR201	0RRZVTA001M	RESISTOR,DRAWING	4.7K OHM 1 / 10 W 1608 4P 5% R	
		AR201	0RRZVTA001J	RESISTOR,DRAWING	4.7K OHM 1 / 16 W 3216 5% R/TP	
		AR300	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR301	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR400	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR401	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR402	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR403	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR404	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		AR405	0RRZVTA001K	RESISTOR,DRAWING	51 OHM 1 / 10 W 1608 4P 5% R/T	
		C101	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C102	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C103	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C104	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C105	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C106	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C107	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C108	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C109	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C110	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C111	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C112	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C113	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C114	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C115	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C116	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C1165	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C117	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C118	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C119	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C120	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C121	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C122	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C123	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C124	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C125	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C126	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C127	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C128	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C129	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C130	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C131	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C132	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C133	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C134	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C135	0CH8106F611	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C136	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C137	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C138	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C139	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C140	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C1400	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C141	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C142	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C143	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C144	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C145	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C146	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C148	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C154	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C155	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C156	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C157	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C160	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C161	0CH8476F611	CAPACITOR, FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C162	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C163	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C166	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C201	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C202	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C203	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C204	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C205	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C206	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C207	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C208	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C209	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C210	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C212	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C214	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C215	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C217	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C219	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C220	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C221	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C222	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C228	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C230	0CH4331K412	CAPACITOR, CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C231	0CH4331K412	CAPACITOR, CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C233	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C234	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C235	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C236	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C237	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C238	0CH4331K412	CAPACITOR, CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C239	0CH4331K412	CAPACITOR, CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C240	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C252	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C260	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C261	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C273	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C274	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C275	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C276	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C277	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C278	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C279	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C280	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C281	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C282	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C283	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C284	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C285	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C286	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C287	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C288	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C289	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C290	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C300	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C301	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C302	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C303	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C304	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C305	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C306	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C307	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C308	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C309	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C310	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C311	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C312	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C313	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C314	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C315	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C316	0CH8476K611	CAPACITOR,CHIP[AL. ELECTROLYTI	47UF 50V M 85STD(CYL) R/TP	
		C317	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C318	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C319	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C320	0CH8107F611	CAPACITOR,CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C321	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C322	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C323	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C324	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C379	0CE105VK6DC	CAPACITOR,FIXED ELECTROLYTIC	1UF MV 50V 20% R/TP(SMD) SMD	
		C383	0CH1222K562	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K X7R(X) 1608 R/TP	
		C384	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C400	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C511	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C512	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C513	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C514	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C520	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C521	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C522	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C523	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C524	0CH8476F611	CAPACITOR, FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C525	0CH4270K412	CAPACITOR, CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C526	0CH4100K112	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C544	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C545	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C600	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C602	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C603	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C604	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C605	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C609	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C611	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C612	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C613	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C614	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C615	0CH1474K562	CAPACITOR, FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C616	0CH4100K412	CAPACITOR, CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C617	0CH4100K412	CAPACITOR, CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C618	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C619	0CH1474K562	CAPACITOR, FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C621	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C622	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C623	0CH1102K562	CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C625	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C626	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C627	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C628	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C629	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C630	0CH4471K412	CAPACITOR, CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C631	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C632	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C635	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C637	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C638	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C639	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C640	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C644	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C646	0CH8106F611	CAPACITOR, CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C647	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C648	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C649	0CH4470K412	CAPA, CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C650	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C701	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C702	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C703	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C704	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C705	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C706	0CH4560K412	CAPA, CHIP CERAMIC M/L T.C F/S	56P 50V J COG 1.6X0.8 R/TP	
		C707	0CH4020K012	CAPACITOR, FIXED CERAMIC(High d	2PF 50V O.25 pF NP0 1608 R/TP	
		C708	0CH4020K012	CAPACITOR, FIXED CERAMIC(High d	2PF 50V O.25 pF NP0 1608 R/TP	
		C709	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C710	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C711	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C712	0CH1222K562	CAPACITOR, CHIP[CERAMIC M/L HD	2200PF 50V K X7R(X) 1608 R/TP	
		C713	0CH1222K562	CAPACITOR, CHIP[CERAMIC M/L HD	2200PF 50V K X7R(X) 1608 R/TP	
		C715	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C716	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C717	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C718	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C751	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C752	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C753	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C754	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C755	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C756	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C757	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C758	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C759	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C760	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C763	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C764	0CH8226F611	CAPACITOR, CHIP[AL. ELECTROLYTI	22UF 16V M 85STD(CYL) R/TP	
		C765	0CH8476F611	CAPACITOR, FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C766	0CH8476F611	CAPACITOR, FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C767	0CH8476F611	CAPACITOR, FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C950	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C951	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C952	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C953	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C954	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C955	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C956	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C957	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C958	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C959	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C960	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C961	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C962	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C963	0CH8477F611	CAPACITOR, FIXED ELECTROLYTIC	470UF 16V 20% 85STD (CYL) R/TP	
		C964	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C965	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C966	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C967	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C968	0CH7226F651	CAPACITOR, FIXED TANTALUM	22UF 16V 20% 6032 TP(-)	
		C969	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C970	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C971	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C972	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C973	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C974	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C975	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C976	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C977	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C978	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C979	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C980	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C981	0CE227BK610	CAPACITOR, FIXED ELECTROLYTIC	220UF KME, RG 50V 20% BULK FL	
		C981	0CE227BK618	CAPACITOR, FIXED ELECTROLYTIC	220UF KME TYPE 50V 20% FL TP 5	
		C982	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C983	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C984	0CE227BK610	CAPACITOR, FIXED ELECTROLYTIC	220UF KME, RG 50V 20% BULK FL	
		C984	0CE227BK618	CAPACITOR, FIXED ELECTROLYTIC	220UF KME TYPE 50V 20% FL TP 5	
		C985	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C986	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C987	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C988	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C991	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C992	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C993	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C994	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C995	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C996	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTI	100UF 16V M 85STD(CYL) R/TP	
		C997	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C998	0CH1104K512	CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		D502	0DTSE00018A	DIODE, DETECTOR	SRV05-4TC SEMTECH R/TP SOT23-6	
		D503	0DTSE00018A	DIODE, DETECTOR	SRV05-4TC SEMTECH R/TP SOT23-6	
		D504	0DTKE00018A	DIODE, DETECTOR	PG05HSUSC KEC R/TP USC 350W .H	
		D505	0DTKE00018A	DIODE, DETECTOR	PG05HSUSC KEC R/TP USC 350W .H	
		DL200	0DL210009LA	LED	SML-210VT TP ROHM RED .	
		DL300	0DL210009LA	LED	SML-210VT TP ROHM RED .	
		FB101	0LCCE00003C	INDUCTOR, CHIP	HB-1M1608-221JT 220 OHM CERATE	
		FB201	0LCCE00003C	INDUCTOR, CHIP	HB-1M1608-221JT 220 OHM CERATE	
		FB401	0LC11608C01	INDUCTOR, CHIP	HB-1M1608-102JT CERATECH R/TP	
		IC101	0IMCRBM003A	IC, MICRO CONTROLLER	IBM25PPC405CR-3BC200C IBM 316	
		IC102	0IMMREB004A	IC, MEMORIES	M12L64164A-7T ELITE MEMORY TEC	
		IC103	0IMMREB004A	IC, MEMORIES	M12L64164A-7T ELITE MEMORY TEC	
		IC104	0IMMRMR024C	IC, MEMORIES	MX29LV320ATTI-90G MACRONIX 48P	
		IC105	0IMMRMR024C	IC, MEMORIES	MX29LV320ATTI-90G MACRONIX 48P	
		IC106	0IPH741400E	IC, STANDARD LOGIC	74HC14D 14SOP TP SHITTER TRIGG	
		IC107	0IKE702900F	IC, KEC	KIA7029AF SOT-89 TP IC, RESET -	
		IC201	0ISTLAT004A	IC, STANDARD LOGIC	EPM3064ATC100-10 ALTERA 100PIN	
		IC203	0IMP242560A	IC, MICRO CHIP TECHNOLOGY	24LC256-I/SM 8P, SOP TP 256K II	
		IC204	0IPRPTI015A	IC, PERIPHERALS	MAX232DR TEXAS INSTRUMENT 16PI	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		IC204	0IMX232162A	IC,MAXIM	MAX232ACSE 16NARROW-SO RS232 -	
		IC208	0TFFC80001A	TRANSISTOR,FETS	FAIRCHILD NDC7002N R/TP SOT-6	
		IC211	0IPRPPH023A	IC,PERIPHERALS	PCA9564 12C PHILIPS 20PIN,TSSO	
		IC212	0IPRPPH023A	IC,PERIPHERALS	PCA9564 12C PHILIPS 20PIN,TSSO	
		IC213	0IPRPTI015A	IC,PERIPHERALS	MAX232DR TEXAS INSTRUMENT 16PI	
		IC213	0IMX232162A	IC,MAXIM	MAX232ACSE 16NARROW-SO RS232 -	
		IC301	0ISTLSG003A	IC,STANDARD LOGIC	M74HC4066RM13TR SGS-THOMSON 14	
		IC400	0ICTMLG009A	IC,CUSTOMIZED	LGDT1102 HD2 LG IC SBGA-432PI	
		IC404	0IMMRHY025A	IC,MEMORIES	HY57V643220CT-7 HYUNDAI 86P TS	
		IC405	0IMMRHY025A	IC,MEMORIES	HY57V643220CT-7 HYUNDAI 86P TS	
		IC500	0IPRPS2002A	IC,PERIPHERALS	SIL170 SILICON MAGIC 64 TQFP T	
		IC501	0IPRPPH012A	IC,PERIPHERALS	P82B715TD PHILIPS 8 SOP R/TP I	
		IC503	0TFFC80001A	TRANSISTOR,FETS	FAIRCHILD NDC7002N R/TP SOT-6	
		IC504	0ITO741570C	IC,TOSHIBA	TC74LCX157FT 16P,TSSOP TP QUAD	
		IC600	0IPRPCY004A	IC,PERIPHERALS	CY24206ZC-4T CYPRESS 16PIN TSS	
		IC601	6200C000017	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
		IC602	6200C000017	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
		IC603	6200C000017	FILTER(CIRC),BAND PASS	LOW PASS FILTER 38MHZ TOKO R/T	
		IC604	0IPRPTK001A	IC,PERIPHERALS	TK15420M TOKO 8 SOP R/TP VIDEO	
		IC605	0IPRPCY007A	IC,PERIPHERALS	CY24212SC-5T CYPRESS 8 PIN SOI	
		IC606	0ILNRMN005A	IC,LINEAR	VPX3226E MICRONAS 44 QFP TRAY	
		IC607	0IPH745400A	IC,PHILIPS	74HC540 20P,SOP TP OCTAL BUFFE	
		IC608	0IPRPNS013A	IC,PERIPHERALS	LM1881M NATIONAL SEMICONDUCTOR	
		IC609	0IPRPAD005A	IC,PERIPHERALS	AD8013AR-14 ANALOG DEVICE 14 S	
		IC610	0IPRPAD005A	IC,PERIPHERALS	AD8013AR-14 ANALOG DEVICE 14 S	
		IC611	0ISTLTI034A	IC,STANDARD LOGIC	SN74LS123DR TEXAS INSTRUMENT 1	
		IC613	0DTSE00039A	DIODE,DETACTOR	SLVU2.8-4 SEMTECH TP SO-8 400W	
		IC614	0DTSE00039A	DIODE,DETACTOR	SLVU2.8-4 SEMTECH TP SO-8 400W	
		IC701	0ILNRMN004A	IC,LINEAR	MSP4448G MICRONAS 64 PQFP R/TP	
		IC702	0IMO330780B	IC,MOTOROLA	MC33078D 8/SOIC TP LINEAR +-18	
		IC703	0IPMGKE016A	IC,POWER MANAGEMENT	KIA78DL08F KEC 3P DPAK(SMD) R/	
		IC704	0ITO741570C	IC,TOSHIBA	TC74LCX157FT 16P,TSSOP TP QUAD	
		IC950	4811R-0042P	BRACKET ASSEMBLY	VCR DIRECTV-STB	
		IC951	0IPMGKE031A	IC,POWER MANAGEMENT	KIA78R33F KEC 5PIN DPAK R/TP 1	
		IC952	0IPMGKE030A	IC,POWER MANAGEMENT	KIA78R05F KEC 5PIN DPAK R/TP 1	
		IC953	0IPMGKE030A	IC,POWER MANAGEMENT	KIA78R05F KEC 5PIN DPAK R/TP 1	
		IC954	0IPMGS1003A	IC,POWER MANAGEMENT	SC15651ST-2.5TR SEMTECH 3PIN S	
		IC955	0IPMGSJ014A	IC,POWER MANAGEMENT	SC15651ST-1.8 SEMTECH 3P SOT-2	
		IC956	0IPMGKE032A	IC,POWER MANAGEMENT	KIA78R09F KEC 5PIN DPAK R/TP 1	
		IC957	0IPMGSJ014A	IC,POWER MANAGEMENT	SC15651ST-1.8 SEMTECH 3P SOT-2	
		IC958	0IPMGKE033A	IC,POWER MANAGEMENT	KIA79L05F KEC 3PIN SOT-89 R/TP	
		IC959	0IPMGKE032A	IC,POWER MANAGEMENT	KIA78R09F KEC 5PIN DPAK R/TP 1	
		JA200	6612F00048A	JACK,PHONE	KJA-PH-3-0051 KSD DUAL TYPE(3.	
		JA600	6612JH003DA	JACK,RCA	RCA-907A-01G YUQIU DIRECTV	
		JA701	6612K00003B	JACK,FIBER OPTIC	PLT131/T5/12(12Mbps) EVERLIGHT	
		L101	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L200	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L300	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L301	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L302	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L303	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L304	635-009N	INDUCTOR,DRAWING	CHIP 100UH NLC322522T-101K TDK	
		L305	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L306	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L400	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L500	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L501	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L502	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L503	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L504	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L600	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L602	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L603	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L604	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L605	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L606	6140RF0005X	INDUCTOR,CHIP	6.8UH, NLC322522T-6R8M TDK R/T	
		L701	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L702	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L703	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		L704	635-009N	INDUCTOR,DRAWING	CHIP 100UH NLC322522T-101K TDK	
		L950	635-009J	INDUCTOR,DRAWING	CHIP 22UH NLC322522T-220J TDK	
		Q200	0TR222209IB	TRANSISTOR,BIPOLARS	KEC KTN2222AS-T1(ZG)NPN TP SOT	
		Q201	0TRKE80040A	TRANSISTOR,BIPOLARS	KTN2907AS(ZH) KEC R/TP SOT23 -	
		Q300	0TRKE80039A	TRANSISTOR,BIPOLARS	KRA225S-T1(PU) KEC R/TP SOT23	
		Q301	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q302	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q500	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q501	0TR101009AC	TRANSISTOR	KRC101S-T1(NA)4.7-4.7 CHIP KEC	
		Q601	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q602	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q702	0TR101009AD	TRANSISTOR	KRA101S-T1(PA)4.7-4.7 CHIP KEC	
		Q703	0TR101009AD	TRANSISTOR	KRA101S-T1(PA)4.7-4.7 CHIP KEC	
		Q704	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		Q705	0TR387509AB	TRANSISTOR,BIPOLARS	KTC3875S-Y-T1(ALY) KEC TP TO9	
		R102	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R103	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R104	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R105	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R107	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R108	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R109	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R110	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R1101	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R1102	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R1103	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R111	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R112	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R113	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R114	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R115	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R116	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R117	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R120	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R122	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R124	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R125	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R126	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R127	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R132	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R134	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R138	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R140	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R143	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R144	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R146	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R147	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R148	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R151	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R152	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R154	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R155	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R156	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R157	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R158	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R159	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R160	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R1603	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1604	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1605	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R1606	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R1607	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R1608	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R1609	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R161	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R1610	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R1611	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R1612	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1614	0RH7500C622	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	
		R1615	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R162	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R1625	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1626	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R1627	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R1628	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1629	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R163	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R1630	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R1631	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1632	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R1633	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R1634	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R1635	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R1636	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R164	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R1643	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R1644	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R1645	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R1646	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R165	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R166	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R167	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R168	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R169	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R170	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R172	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R174	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R175	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R176	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R179	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R180	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R181	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R182	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R183	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R184	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R185	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R186	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R187	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R188	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R190	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R191	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R192	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R193	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R194	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R198	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R202	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R203	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R204	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R205	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R206	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R208	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R209	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R210	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R211	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R217	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R218	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R219	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R220	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R221	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R222	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R226	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R227	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R228	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R230	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R231	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R232	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R233	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R238	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R240	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R244	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R246	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R247	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R248	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R249	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R252	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R255	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R258	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R259	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R260	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R261	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R268	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R270	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R271	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R272	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R278	0RH1501C622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R281	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R283	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R284	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R285	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R286	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R288	0RH0102G622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 4 W 3216 5.00% D	
		R289	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R291	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R292	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R293	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R294	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R295	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R296	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R298	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R300	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R301	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R302	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R303	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R304	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R305	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R306	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R307	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R308	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R309	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R310	0RH3301C622	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R311	0RH1501C622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R312	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R313	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R401	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R402	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R403	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R404	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R405	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R406	0RH3600C622	RESISTOR,METAL GLAZED(CHIP)	360 OHM 1 / 16 W 1608 5.00% D	
		R407	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R408	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R409	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R410	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R411	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R412	0RH3600C622	RESISTOR,METAL GLAZED(CHIP)	360 OHM 1 / 16 W 1608 5.00% D	
		R416	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R417	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R418	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R419	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R421	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R423	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R424	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R428	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R429	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R430	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R431	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R432	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R501	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R502	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R503	0RH7502C622	RESISTOR,METAL GLAZED(CHIP)	75K OHM 1 / 16 W 1608 5.00% D	
		R504	0RJ4300C677	RESISTOR,METAL GLAZED(CHIP)	430 OHM 1/16 W 5% 1608 R/TP	
		R510	0RH5100C622	RESISTOR,METAL GLAZED(CHIP)	510 OHM 1 / 16 W 1608 5.00% D	
		R511	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R515	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R516	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R517	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R519	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R600	0RJ6202C677	RESISTOR,METAL GLAZED(CHIP)	62K OHM 1/16 W 5% 1608 R/TP	
		R601	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R602	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R603	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R604	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R605	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R606	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R607	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R608	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R611	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R612	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R613	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R615	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R616	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R619	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R620	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R621	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R622	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R623	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R624	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R625	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R626	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R627	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R628	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R629	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R630	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R631	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R632	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R633	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R634	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R635	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R636	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R637	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R638	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R639	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R640	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R641	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R642	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R643	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R644	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R652	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R653	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R654	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R655	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R662	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R663	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R664	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R665	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R666	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R667	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R670	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R671	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R672	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R673	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R674	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R675	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R677	0RH7502C622	RESISTOR,METAL GLAZED(CHIP)	75K OHM 1 / 16 W 1608 5.00% D	
		R678	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R679	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R680	0RH7500C622	RESISTOR,METAL GLAZED(CHIP)	750 OHM 1 / 16 W 1608 5.00% D	
		R681	0RH6803C622	RESISTOR,METAL GLAZED(CHIP)	680K OHM 1 / 16 W 1608 5.00% D	
		R682	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R685	0RH0682C622	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R687	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R688	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R689	0RH5100C622	RESISTOR,METAL GLAZED(CHIP)	510 OHM 1 / 16 W 1608 5.00% D	
		R690	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R691	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R692	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R693	0RH5100C622	RESISTOR,METAL GLAZED(CHIP)	510 OHM 1 / 16 W 1608 5.00% D	
		R694	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R695	0RH5100C622	RESISTOR,METAL GLAZED(CHIP)	510 OHM 1 / 16 W 1608 5.00% D	
		R696	0RH5100C622	RESISTOR,METAL GLAZED(CHIP)	510 OHM 1 / 16 W 1608 5.00% D	
		R697	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R698	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R701	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R702	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R707	0RH2001C622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R708	0RH2001C622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R709	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R710	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R711	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R712	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R713	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R950	0RF1000H645	RESISTOR,VARIABLE[CARBON FILM]	100 OHM 1/2 W 5% F15	
		SW101	6600RRT002W	SWITCH,TACT	TMUE252RAB, SMD TACT 5P POSTEC	
		SW102	6600RRT002W	SWITCH,TACT	TMUE252RAB, SMD TACT 5P POSTEC	
		SW201	6600Q000023	SWITCH,SLIDE	CSS-2209A CHANG SHIN 50VDC 0.3	
		T209	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T210	6200VJT006A	FILTER(CIRC),EMC	STC222D NIIGATA 50VOLT 4A 2200	
		T211	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T602	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T603	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T604	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T605	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T606	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T607	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T608	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T609	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T610	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T611	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T612	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T613	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T614	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T615	6200VJT001A	FILTER(CIRC),EMC	BMK400 TA NIIGATA 50VOLT 1A RE	
		T950	6200VJB001A	FILTER(CIRC),EMC	BNX002-01 BNX002-01 MURATA .VO	
		T951	6200VJB001A	FILTER(CIRC),EMC	BNX002-01 BNX002-01 MURATA .VO	
		TU300	6700NB0011A	TUNER	TDVB-H920P(ATSC/NTSC/NIM)US LG	
		X101	6204A42500C	OSCILLATOR	BXO-210 BUBANG 25MHZ +/- 50 PP	
		X102	6204A43686C	OSCILLATOR	BXO-210 BUBANG/CHUNGHO 3.6864M	
		X600	6212AB2270D	RESONATOR,CRYSTAL	SX-1 SUNNY 27MHZ +1 ~ -23 PPM	
		X601	6212AB2010A	RESONATOR,CRYSTAL	SX-1 SUNNY 20.25MHZ +/- 30 PPM	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		X701	6212AB2008A	RESONATOR,CRYSTAL	SX-1 SUNNY 18.432MHZ +/- 30 PP	