

SERVICE MANUAL

NLT-40PAN

40inch TFT-LCD TV/MONITOR



2007. 09. 15

NEC

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1. Safety Instructions

Important Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics.

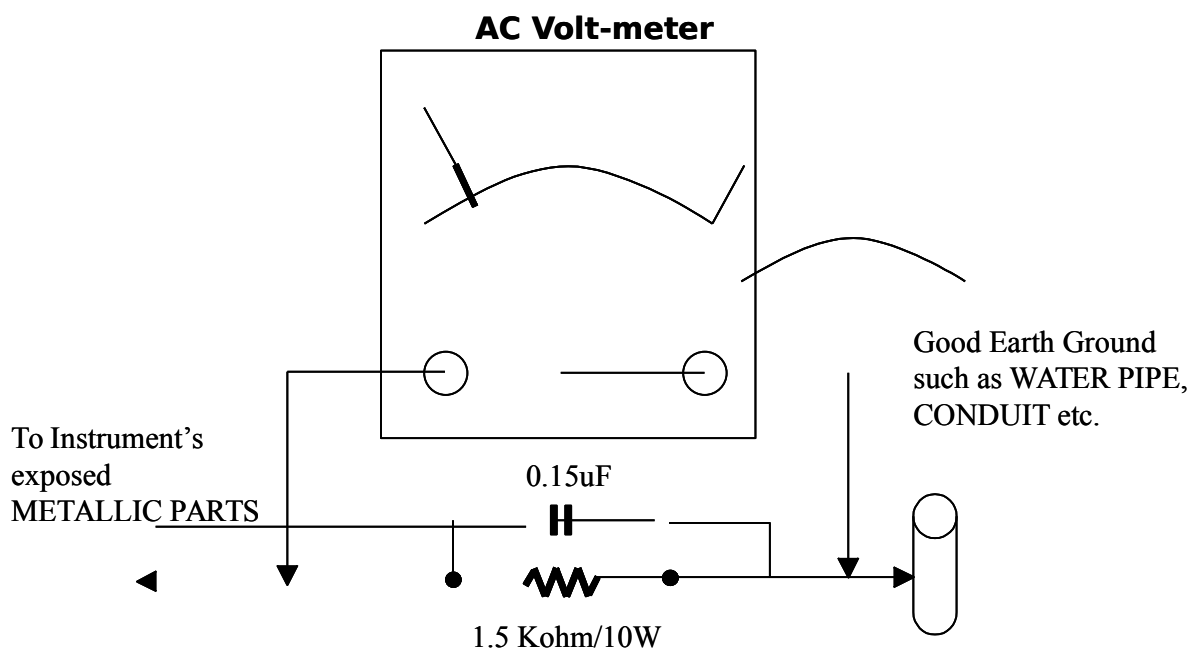
These parts are identified by in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

Leakage Current Hot Check (See below Figure)

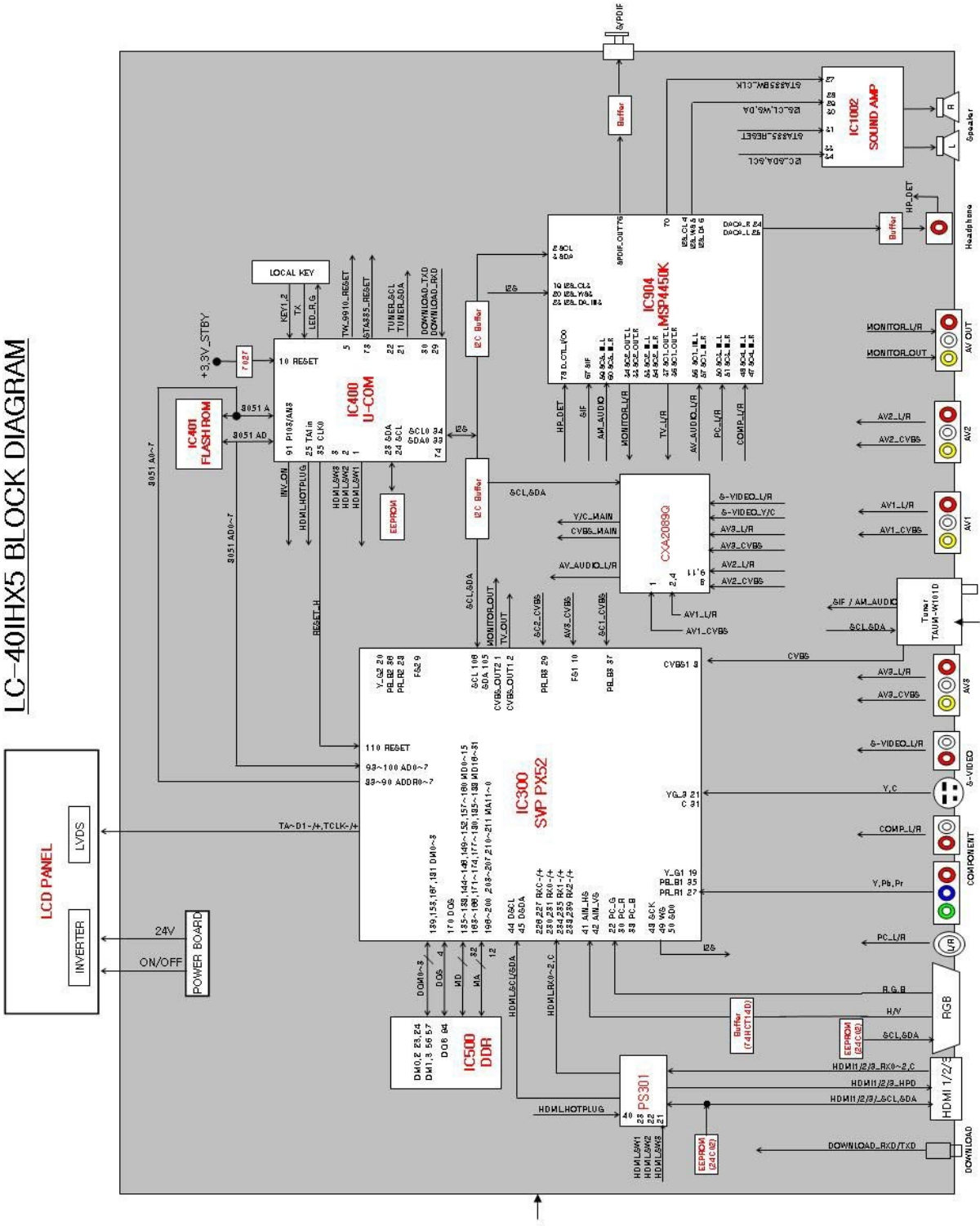
Plug the AC cord directly into the AC outlet. Do not use a line Isolation Transformer during this check. Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc) and the exposed metallic parts. Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity. Reverse plug of the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS, which is, corresponds to 0.5mA. In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.



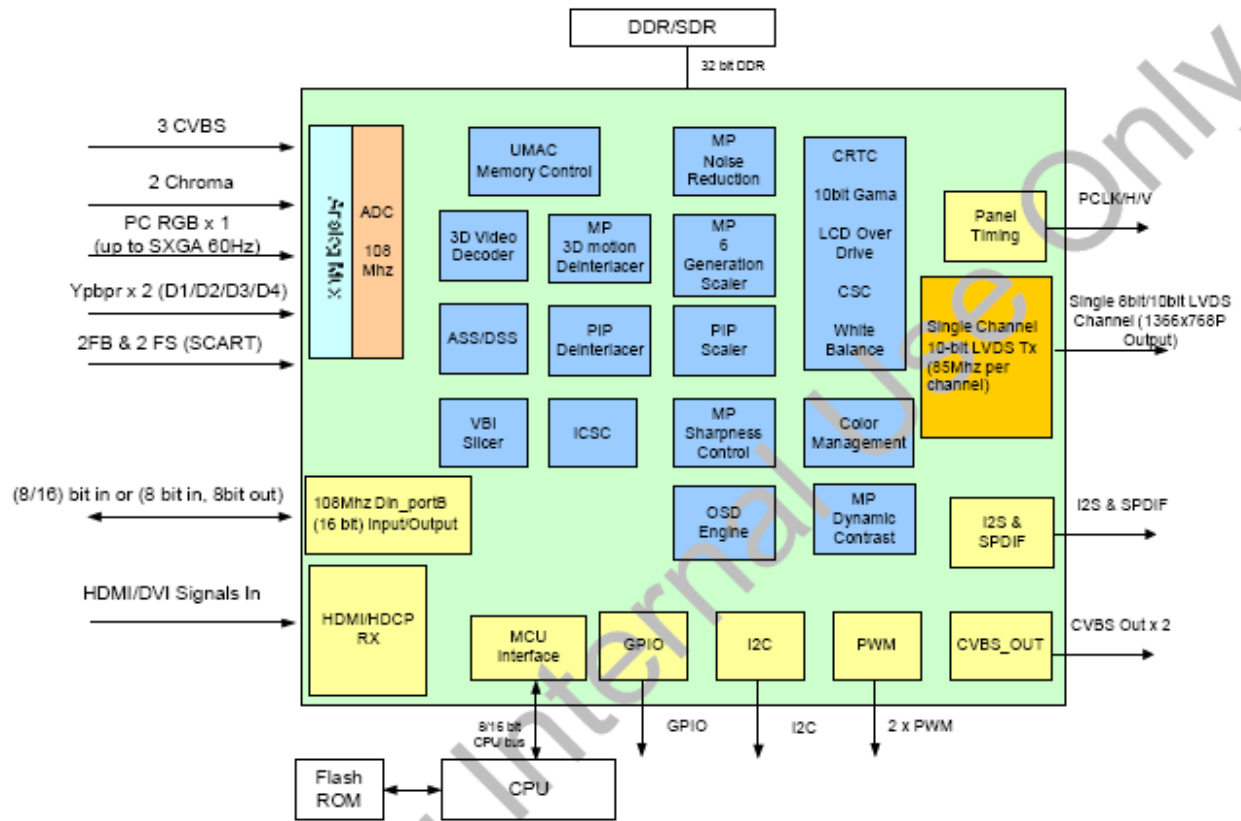
2. BLOCK DIAGRAM

■ BLOCK DIAGRAM

LC-40HX5 BLOCK DIAGRAM



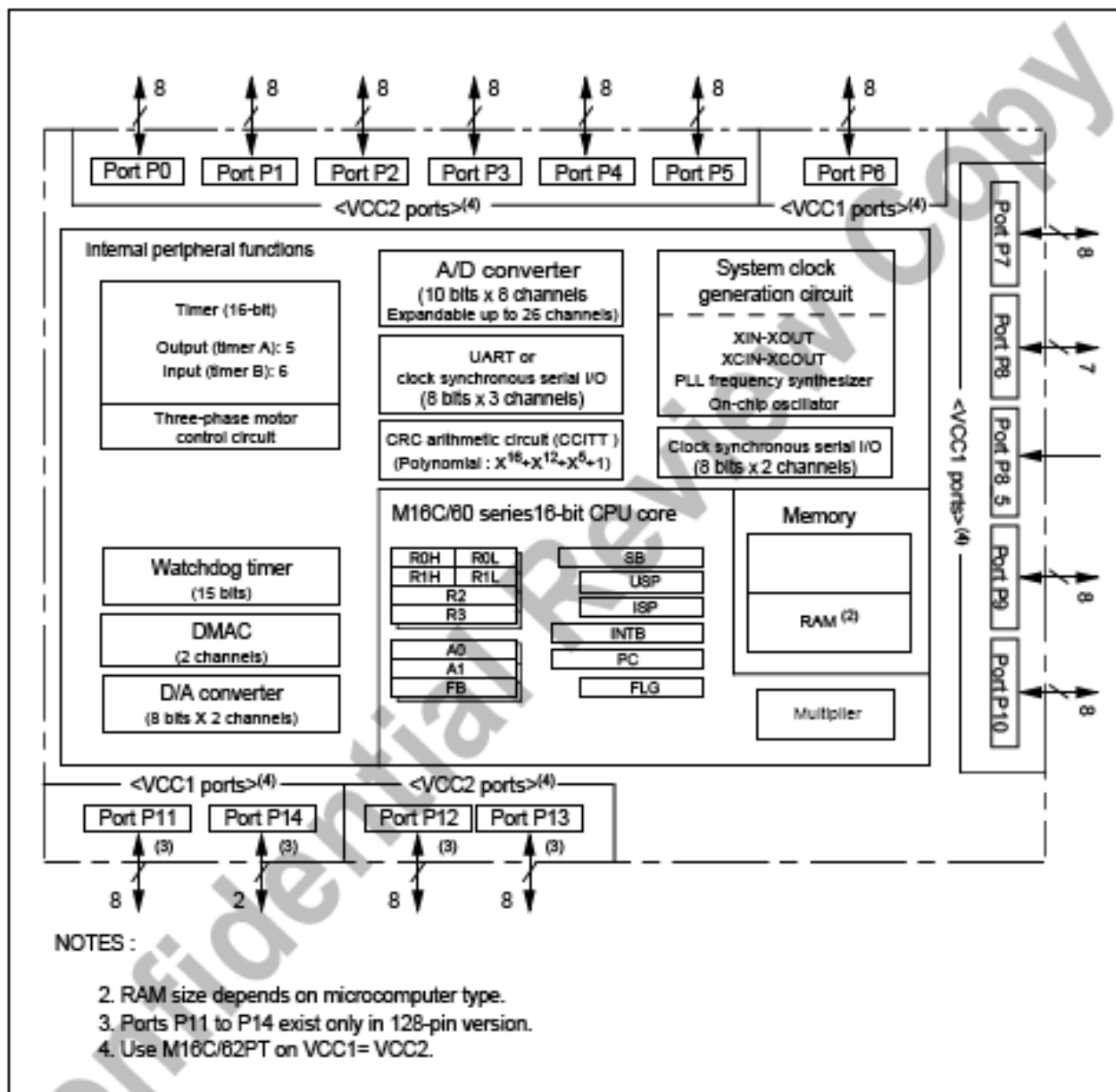
■ IC FUNCTIONAL BLOCK DIAGRAM (SVP-PX52)



■ IC PIN ASSIGNMENT (SVP-PX52)



■ IC BLOCK DIAGRAM (M30300SAGP#U5C)



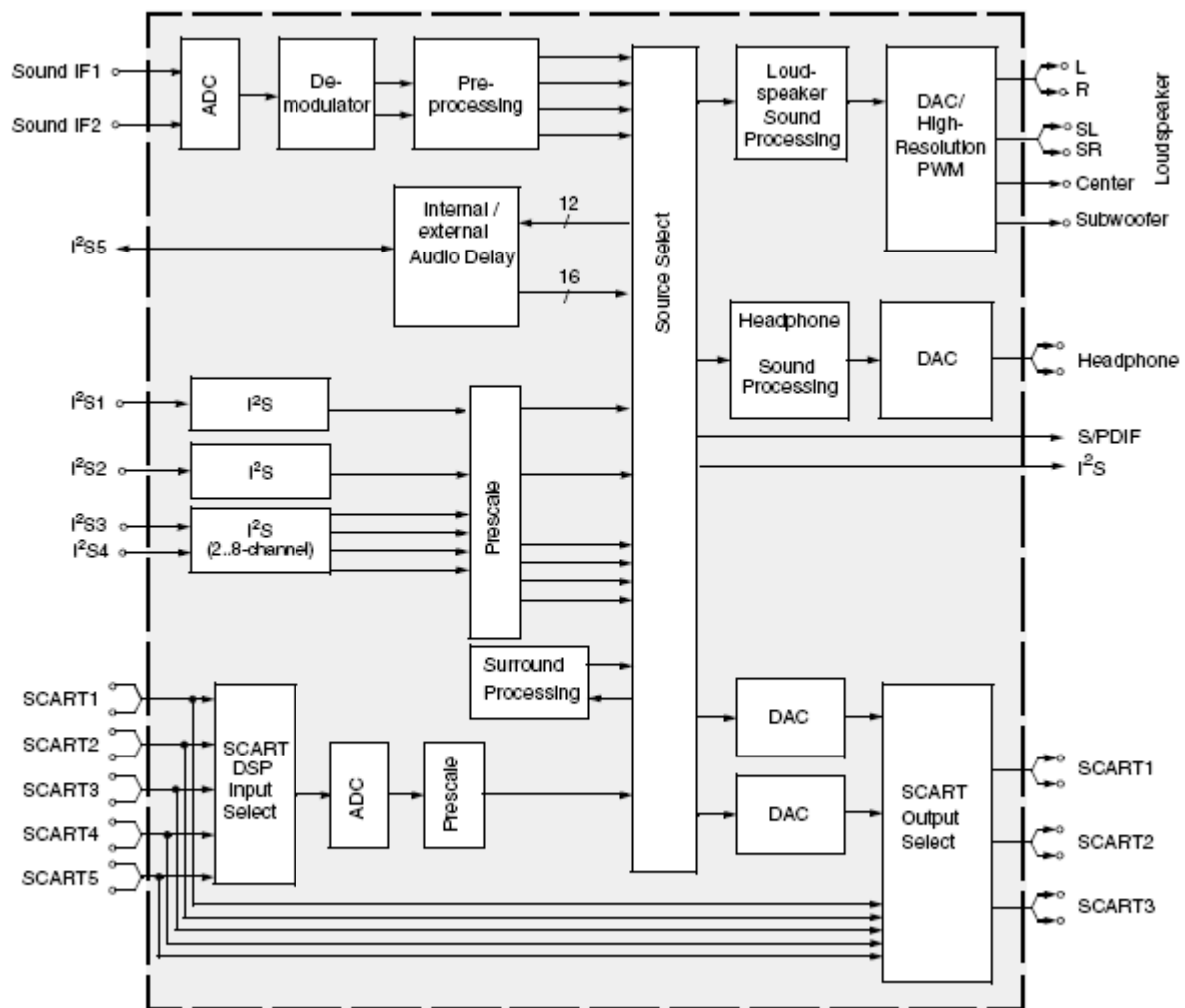
PIN CONFIGURATION (top view)

NOTES:

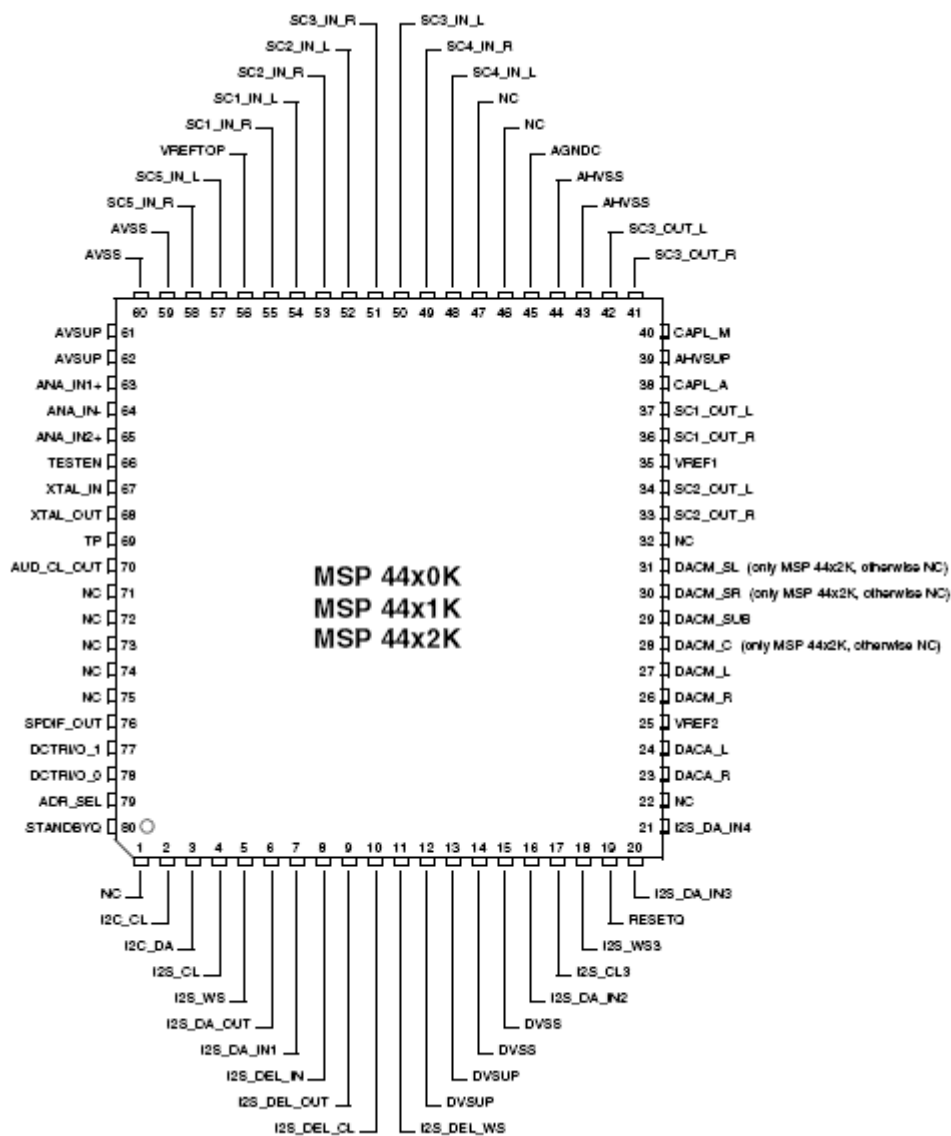
1. P7_0 and P7_1 are N channel open-drain output pins.

Package: 100P6Q-A

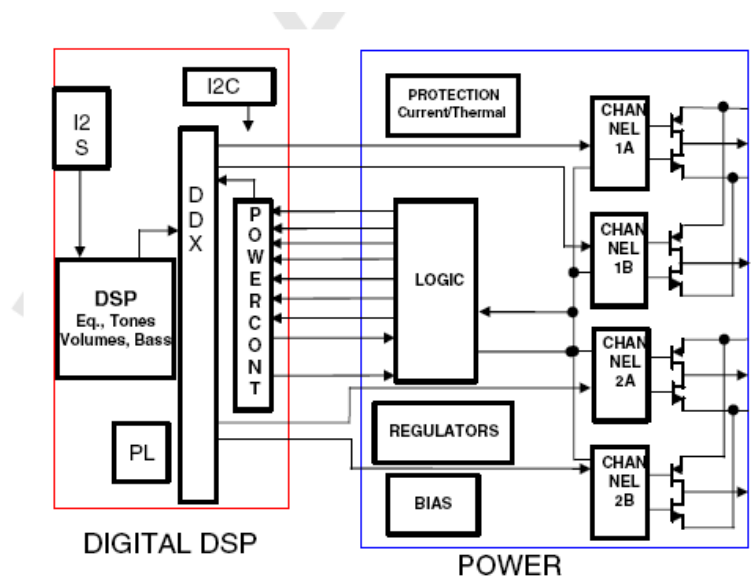
■ IC BLOCK DIAGRAM (MSP44/46xyK,PMQFP80-1)



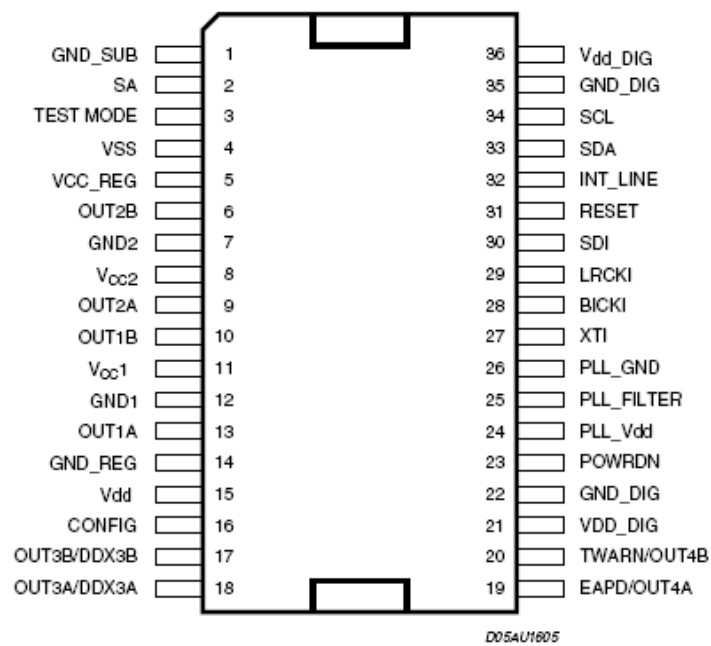
■ IC PIN OUT (MSP44/46xyK,PMQFP80-1)



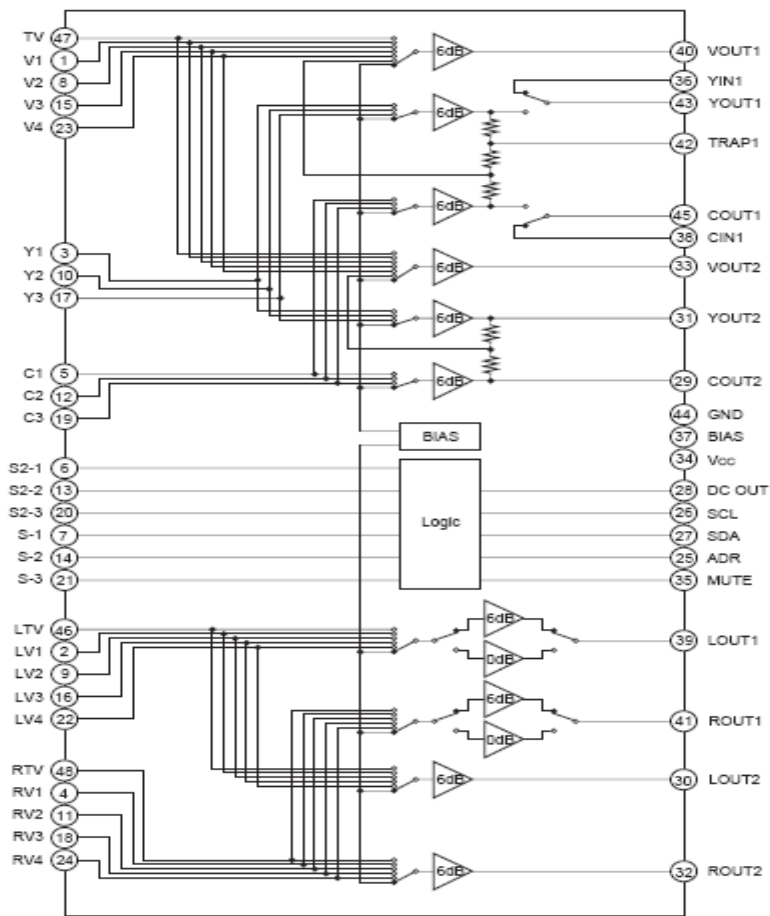
■ IC BLOCK DIAGRAM (STA335BW)



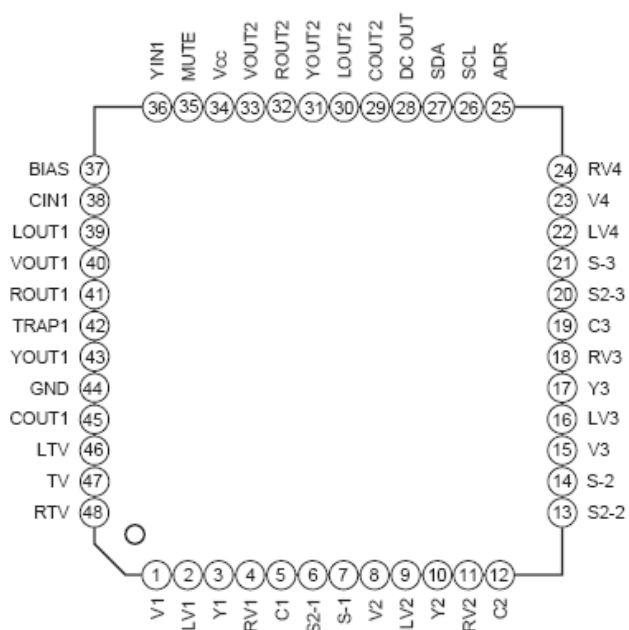
■ IC PIN OUT (STA335BW)



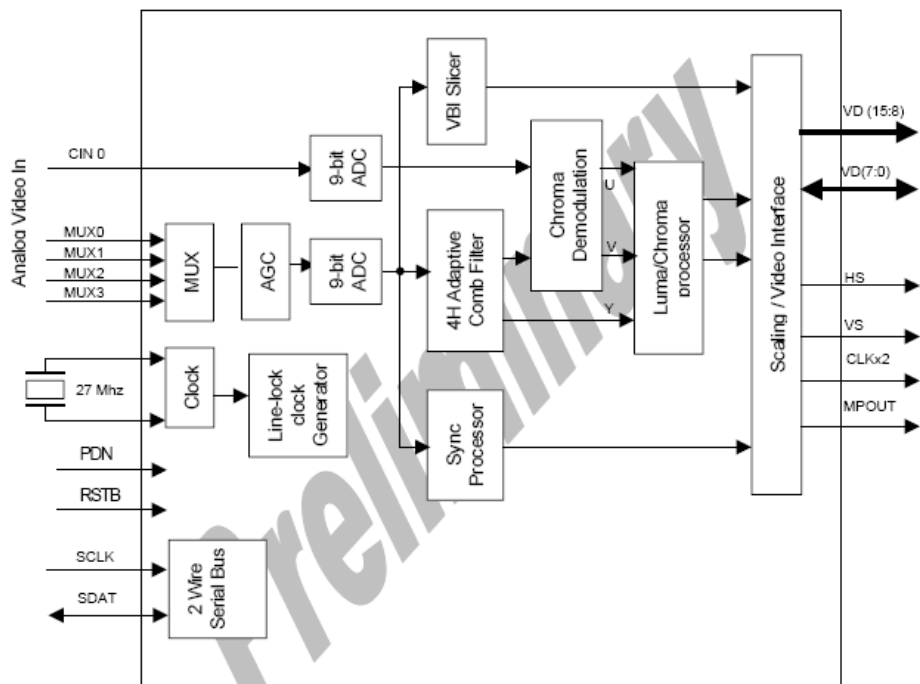
■ IC BLOCK DIAGRAM (CXA2089Q,QFP)



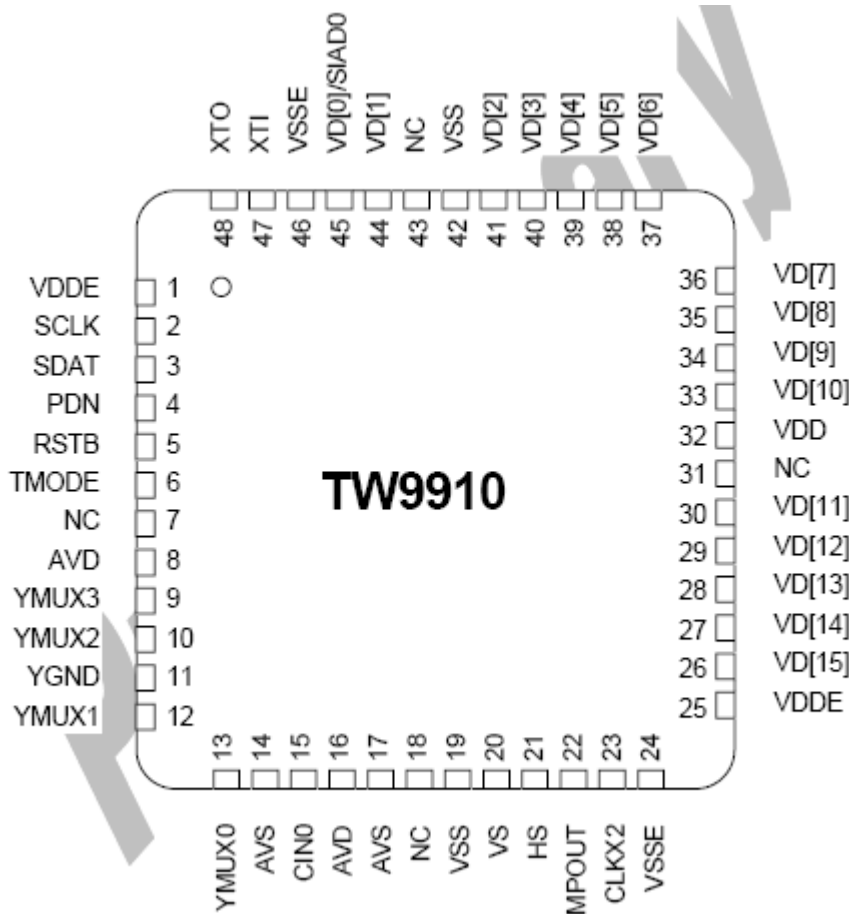
■ IC PIN OUT (CXA2089Q,QFP)



■ IC BLOCK DIAGRAM (TW9910,QFN)



■ IC PIN OUT (CXA2089Q,QFP)



3.General Specification

No	Item	Specification Remark		
		Min	Typ	Max Unit
1.	Video Input	1) NTSC M 2) NTSC 4.43 3) PAL 4) SECAM		
2.	Component Input	480i/59.94/60Hz 576i/50Hz 480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz		
3.	RGB DTV Input	480i/59.94/60Hz 576i/50Hz 480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz		
4.	RGB PC Input	VGA (640x480) SVGA (800x600) XGA (1024x768) SXGA (1280x1024) MAC		
5.	HDMI(DVI) DTV Input	480i/59.94/60Hz 576i/50Hz 480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz		
6.	HDMI(DVI) PC Input	VGA (640x480) SVGA (800x600) XGA (1024x768) SXGA (1280x1024) MAC		
8.	Input Voltage	AC 100 ~ 240 V, 50hz / 60hz		
9.	External Interface	RGB PC/RGB DTV Input	1 D-Sub	15 Pin
		PC Sound Input	1	Ear-phone Jack (RGB PC,HDMI 공용)
		HDMI(DVI) Input	3	HDMI Connector
		COMPONENT Input	1	RCA 3P
		Component L/R	1	RCA 2P
		AV Input	3	RCA 3P
		AV Out	1	RCA 3P(Side)
		S-VIDEO Input	1	S-VIDEO JACK
		S-VIDEO Audio Input	1	RCA 2P
		SPDIF Input	1	OPTICAL JACK
		Headphone out	1	Ear-phone Jack (Side)
10.	HDMI(DVI) PC Input	VGA (640x480) SVGA (800x600) XGA (1024x768) SXGA (1280x1024) MAC		

■< Table 1. > Component Signal Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	720x480	15.73	59.94	13.500	SDTV_DD 480i(525i)
2.	720x480	15.75	60.00	13.514	SDTV_DD 480i(525i)
3.	720x576	15.625	50.00	13.500	SDTV_DD 576i(525i)
4.	720x480	31.47	59.94	27.000	SDTV 480p 59Hz
5.	720x480	31.50	60.00	27.027	SDTV 480p 60Hz
6.	720x576	31.25	50.00	27.000	SDTV 576p 50Hz
7.	1280x720	44.96	59.94	74.176	HDTV 720p 59Hz
8.	1280x720	45.00	60.00	74.250	HDTV 720p 60Hz
9.	1280x720	37.50	50.00	74.25	HDTV 720p 50Hz
10.	1920x1080	33.72	59.94	74.176	HDTV 1080i 59Hz
11.	1920x1080	33.75	60.00	74.250	HDTV 1080i 60Hz
12.	1920x1080	28.125	50.00	74.250	HDTV 1080i 50Hz

■< Table 2. > RGB -DTV Signal Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	720x480	31.47	59.94	27.000	SDTV 480p 59Hz
2.	720x480	31.50	60.00	27.027	SDTV 480p 60Hz
3.	720x576	31.25	50.00	27.000	SDTV 576p 50Hz
4.	1280x720	44.96	59.94	74.176	HDTV 720p 59Hz
5.	1280x720	45.00	60.00	74.250	HDTV 720p 60Hz
6.	1280x720	37.50	50.00	74.25	HDTV 720p 50Hz
7.	1920x1080	33.72	59.94	74.176	HDTV 1080i 50Hz
8.	1920x1080	33.75	60.00	74.250	HDTV 1080i 60Hz
9.	1920x1080	28.125	50.00	74.250	HDTV 1080i 59Hz

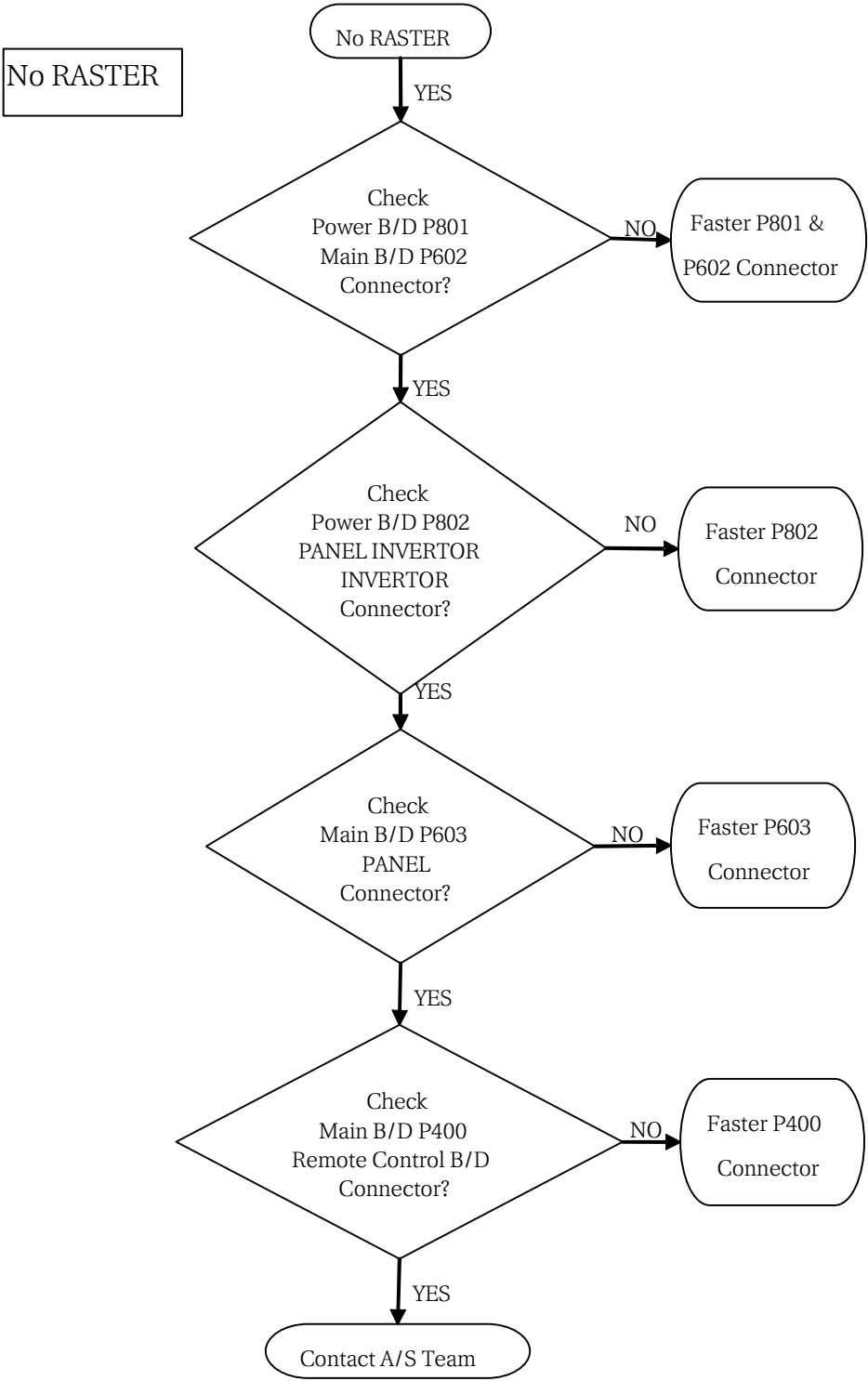
■< Table 3. > RGB -PC , HDMI(DVI) -PC Signal Resolution

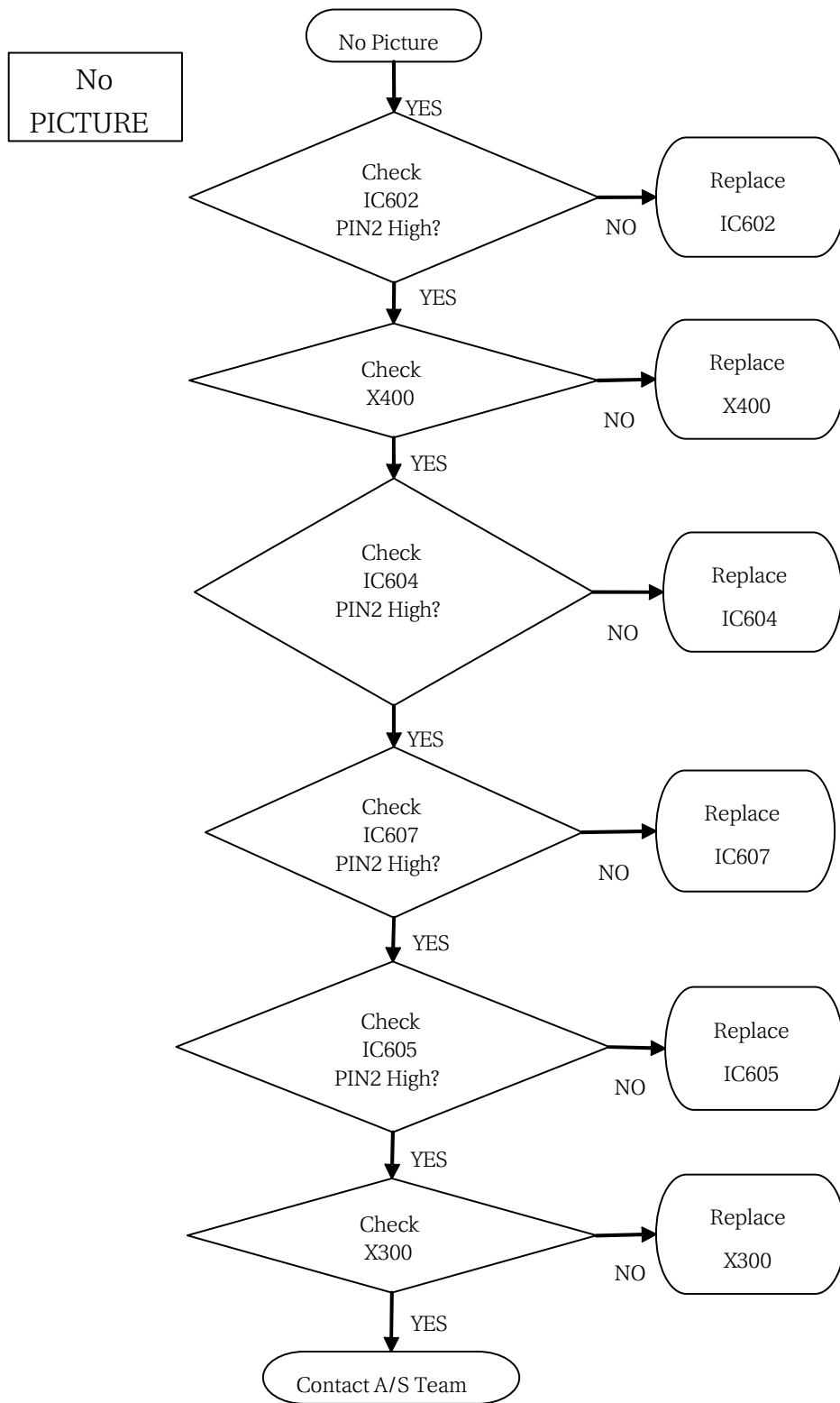
No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	640x350	31.469	70.08	28.32	DOS
2.	720x400	31.469	70.08	28.32	DOS
3.	720x400	37.927	85.03	35.50	DOS
4.	640x480	31.469	59.94	25.17	VESA(VGA)
5.	640x480	37.861	72.80	31.50	VESA(VGA)
6.	640x480	37.500	75.00	31.50	VESA(VGA)
7.	640x480	43.269	85.00	36.00	VESA(VGA)
8.	800x600	35.156	56.25	36.00	VESA(SVGA)
9.	800x600	37.879	60.31	40.00	VESA(SVGA)
10.	800x600	48.077	72.18	50.00	VESA(SVGA)
11.	800x600	46.875	75.00	49.50	VESA(SVGA)
12.	800x600	53.674	85.06	56.25	VESA(SVGA)
13.	832x624	49.725	74.55	57.28	Macintosh
14.	1024x768	48.363	60.00	65.00	VESA(XGA)
15.	1024x768	56.476	70.06	75.00	VESA(XGA)
16.	1024x768	60.023	75.02	78.75	VESA(XGA)
17.	1024x768	68.677	85.00	95.62	VESA(XGA)
18.	1280x768	47.7	60.00		(WXGA)
19.	1280x768	60.1	75.06		(WXGA)
20.	1280x768	68.5	85.02		(WXGA)
21.	1360x768	49.0	60.00		(WXGA)
22.	1366x768	49.0	60.00		(WXGA)
23.	1280x1024	64.000	60.00	108.000	VESA(SXGA)

■< Table 4. > HDMI(DVI) - DTV Resolution

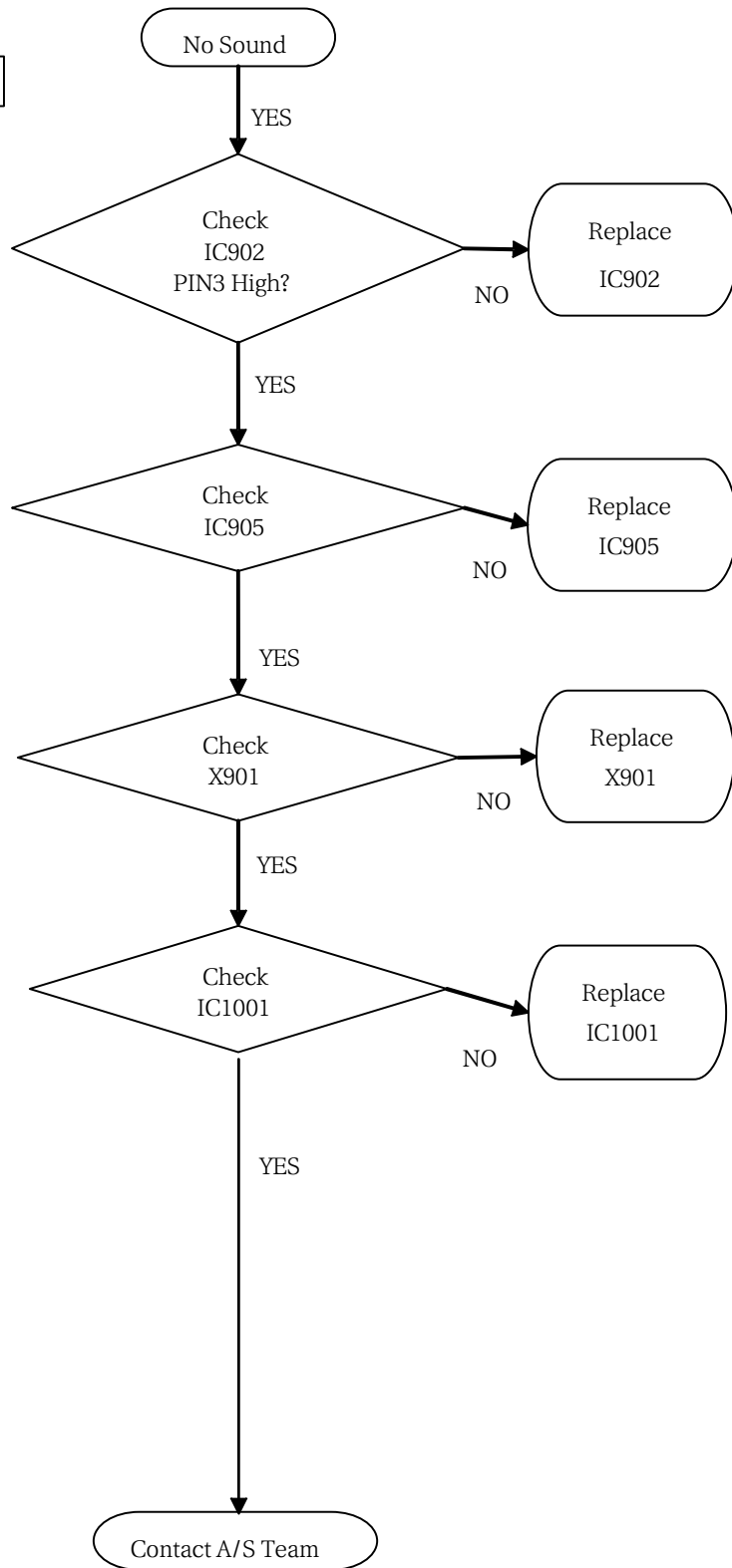
No	Resolution	H-freq(KHz)	V-freq.(Hz)		Pixel clock(MHz)	Proposed
1.	720x480		31.47	59.94	27.000	SDTV 480p 59Hz
2.	720x480		31.50	60.00	27.027	SDTV 480p 60Hz
3.	720x576		31.25	50.00	27.000	SDTV 576p 50Hz
4.	1280x720		44.96	59.94	74.176	HDTV 720p 59Hz
5.	1280x720		45.00	60.00	74.250	HDTV 720p 60Hz
6.	1280x720		37.50	50.00	74.25	HDTV 720p 50Hz
7.	1920x1080		33.72	59.94	74.176	HDTV 1080i 50Hz
8.	1920x1080		33.75	60.00	74.250	HDTV 1080i 60Hz
9.	1920x1080		28.125	50.00	74.250	HDTV 1080i 50Hz

4. TROUBLE SHOOTING





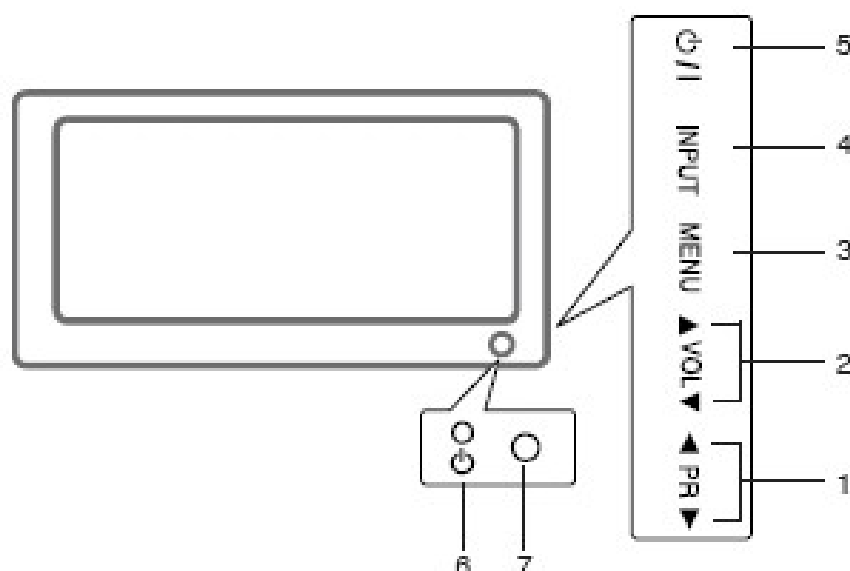
No SOUND



5. CONTROLS OF FRONT PANEL

■ Front panel

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.

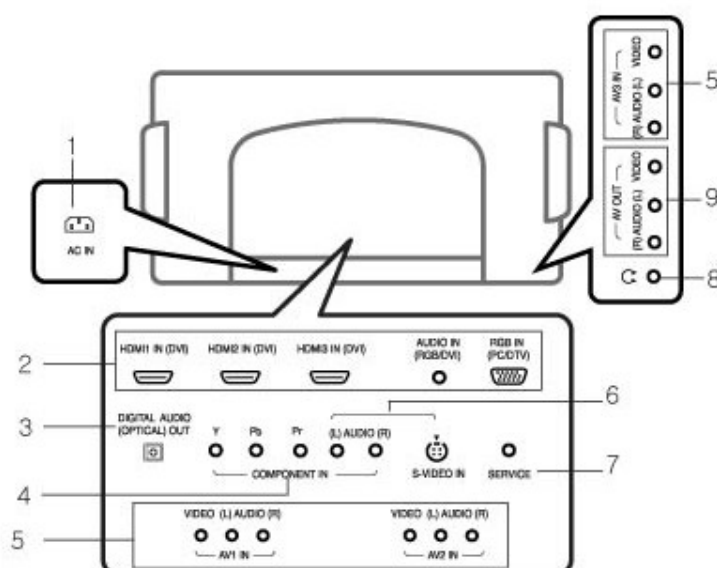


- | | |
|---|--|
| <p>1. ▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set On from standby.</p> <p>2. ◀ / ▶ (Volume Down/Up)
adjusts the volume.
adjusts menu settings.</p> <p>3. MENU
selects a menu.</p> <p>4. INPUT
selects AV 1, AV 2, AV 3, S-Video,
Component, PC-RGB, HDMI 1, HDMI 2,
HDMI 3 (available for NLT-40HPAN model
only.) mode.</p> | <p>5. POWER (⏻)
switches the set On from standby or On to
standby.</p> <p>6. POWER/STANDBY INDICATOR (⦿)
■luminates red in standby mode.
■luminates green when the set is switched
On.</p> <p>7. REMOTE CONTROL SENSOR</p> |
|---|--|

6. CONNECTIONS OF BACK PANEL

■ Back panel

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.



1. POWER CORD SOCKET

This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.

2. HDMI1 IN (DVI) / HDMI2 IN (DVI) / HDMI3 IN (DVI) (available for NLT-40HPAN model only.) / RGB IN (PC/DVI) / AUDIO IN (RGB/ DVI) SOCKETS

Connect the set output socket of the PERSONAL COMPUTER to this socket.

3. DIGITAL AUDIO (OPTICAL) OUT

Connect digital audio from various types of equipment.

Note : In standby mode, these ports will not work.

4. COMPONENT IN (480i / 480p / 720p / 1080i) SOCKETS

5. AUDIO/VIDEO IN SOCKET

Connect the audio/video out sockets of the VCR to **AV** sockets of the set.

6. S-VIDEO IN

Connect video out from an S-Video VCR to the S-VIDEO input.

Connect the S-Video sound input socket of the VCR to Component audio sockets of the set.

7. SERVICE ONLY SOCKET

8. HEADPHONE SOCKET

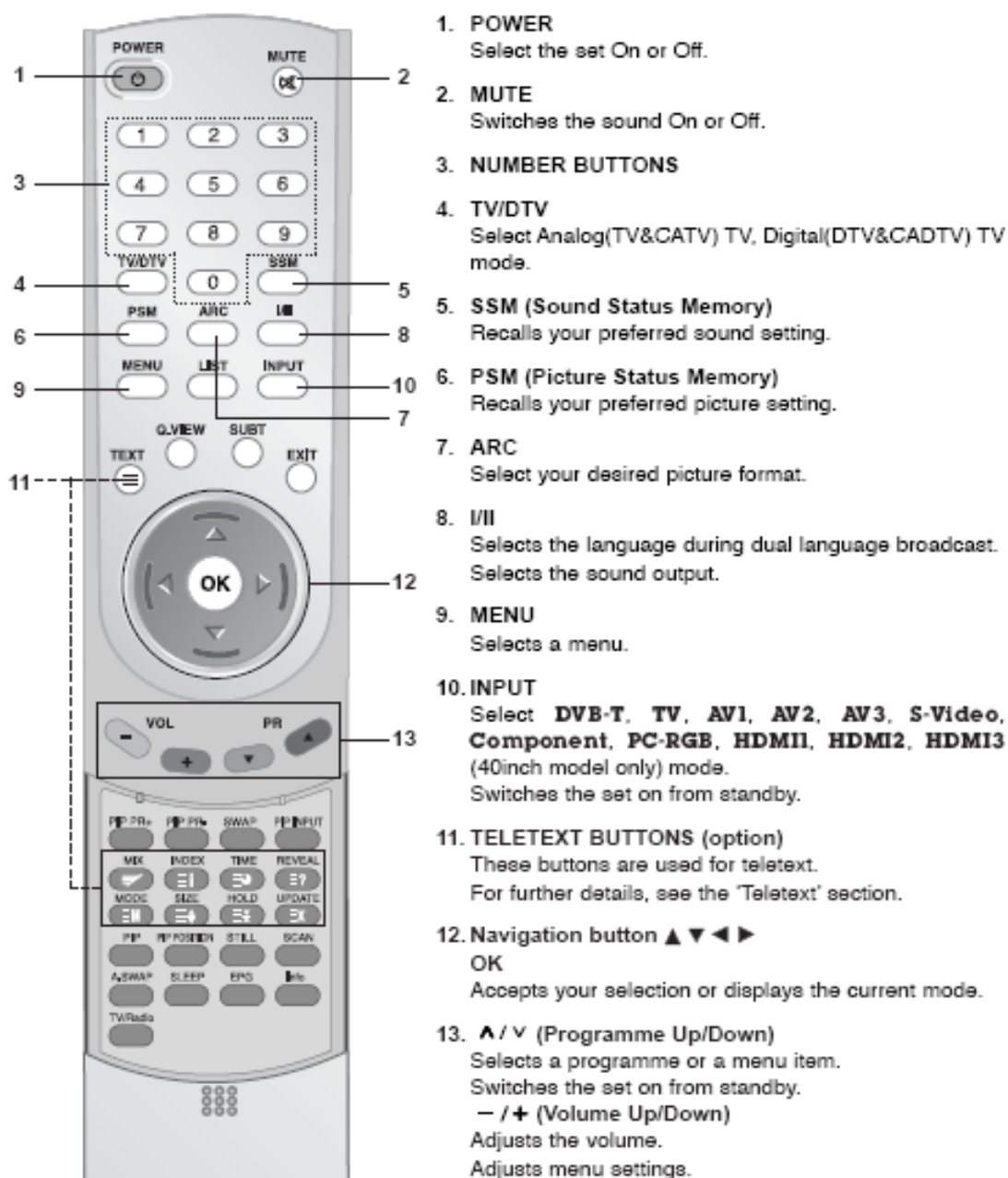
Connect the headphone plug to this socket.

9. AUDIO/VIDEO OUT SOCKET

Connect an external amplifier or add a sub-woofer to your surround sound system.

7. REMOTE CONTROL HANDSET

- All the functions can be controlled with the remote control handset.
- Some functions can also be adjusted with the buttons on the front panel of the set.
- Before you use the remote control handset, please install the batteries.



- 1. POWER**
Select the set On or Off.
- 2. MUTE**
Switches the sound On or Off.
- 3. NUMBER BUTTONS**
- 4. TV/DTV**
Select Analog(TV&CATV) TV, Digital(DTV&CADTV) TV mode.
- 5. SSM (Sound Status Memory)**
Recalls your preferred sound setting.
- 6. PSM (Picture Status Memory)**
Recalls your preferred picture setting.
- 7. ARC**
Select your desired picture format.
- 8. I/II**
Selects the language during dual language broadcast.
Selects the sound output.
- 9. MENU**
Selects a menu.
- 10. INPUT**
Select **DVB-T, TV, AV1, AV2, AV3, S-Video, Component, PC-RGB, HDMI1, HDMI2, HDMI3** (40inch model only) mode.
Switches the set on from standby.
- 11. TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
- 12. Navigation button ▲ ▼ ◀ ▶**
OK
Accepts your selection or displays the current mode.
- 13. ▲ / ▼ (Programme Up/Down)**
Selects a programme or a menu item.
Switches the set on from standby.
- / + (Volume Up/Down)
Adjusts the volume.
Adjusts menu settings.



14. LIST

Displays the programme table.

15. Q.VIEW

Returns to the previously viewed programme.

16. SUBT (In Digital mode only)

Select to display the subtitle language.

17. TELETEXT BUTTONS (option) (In Digital mode only)

Recalls your preferred subtitle in digital mode.

18. EXIT

Exits from each mode.

19. PIP

Switches the sub picture On or Off.

A.SWAP

PIP mode - main and sub picture audio select.

PIP PR +/-

Selects a programme for the sub picture.

SWAP

Alternates between main and sub picture.

PIP INPUT

Selects the input mode for the sub picture.

PIP POSITION

Relocates the sub picture in clockwise direction.

20. STILL

Freezes motion of the picture.

21. SCAN

Switches on the programme scan mode through 9 sub pictures.

22. Info (In Digital mode only)

Displays information on top of the screen during watching TV.

23. EPG (In Digital mode only)

Shows a programme schedule.

24. SLEEP

Sets the sleep timer.

25. TV/Radio (In Digital mode only)

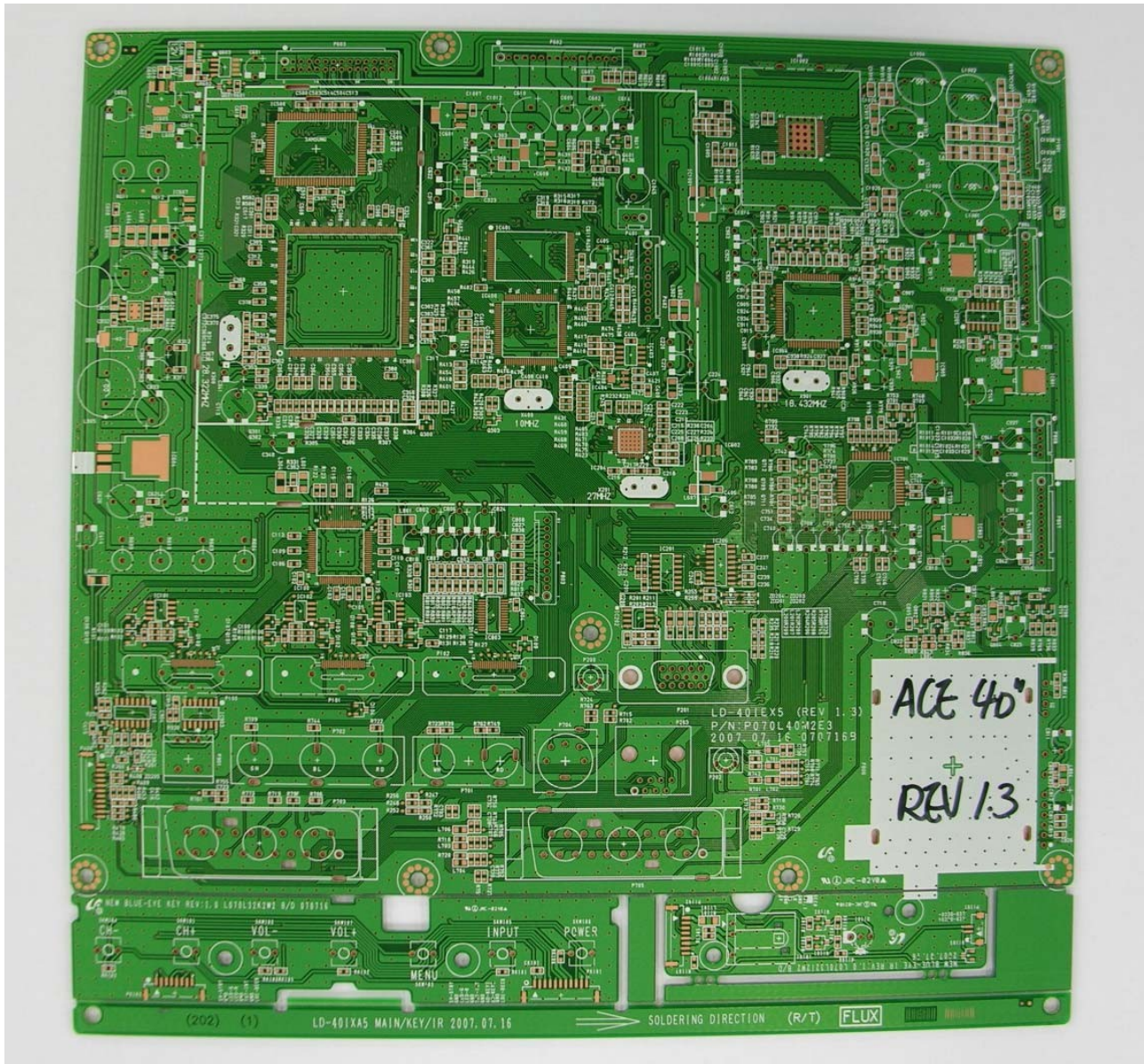
Select **TV** or **Radio** mode.

- COLOURED BUTTONS

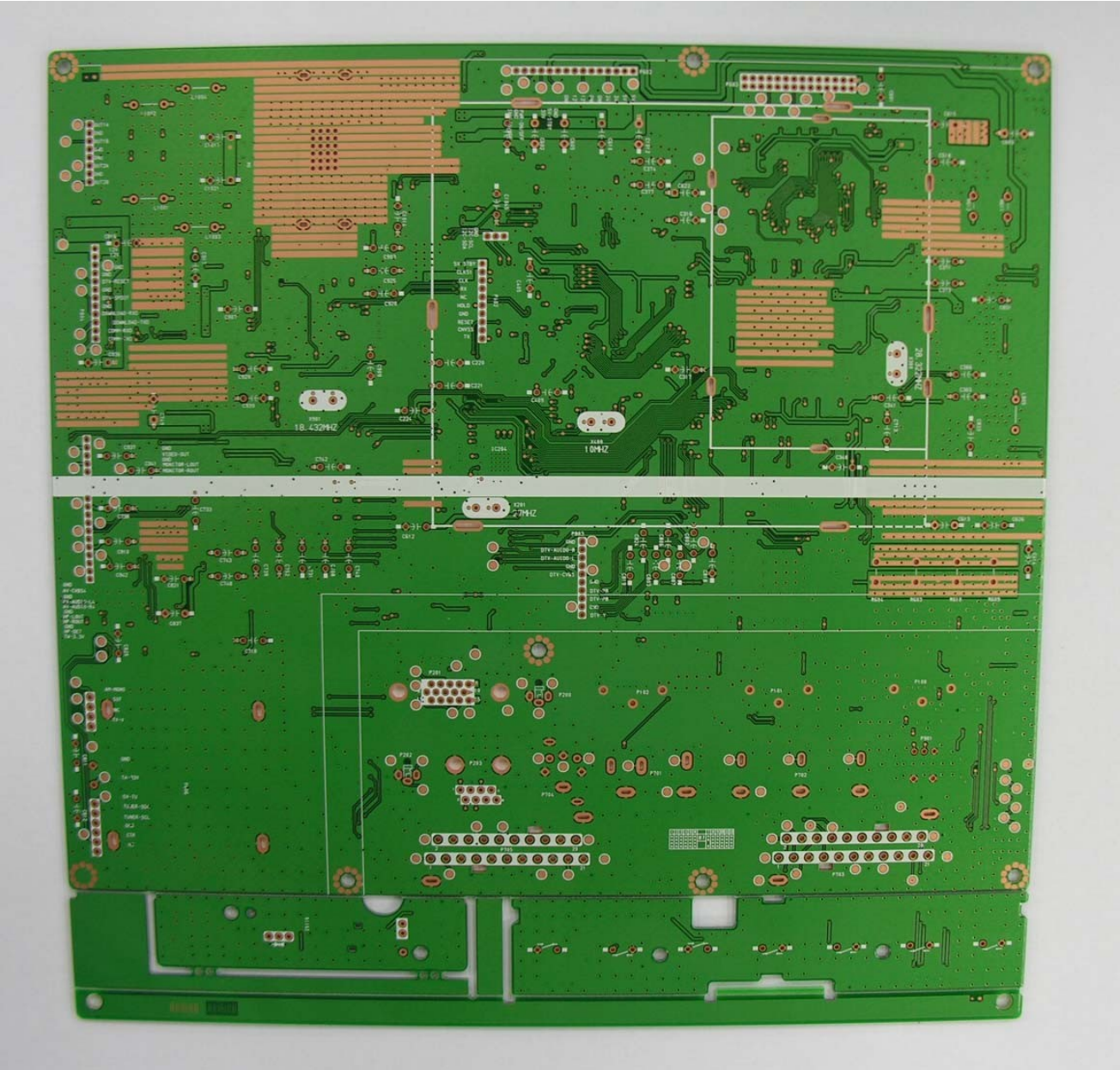
These buttons are used for teletext (only TELETEXT models) or programme edit.

8. PCB LAYOUT

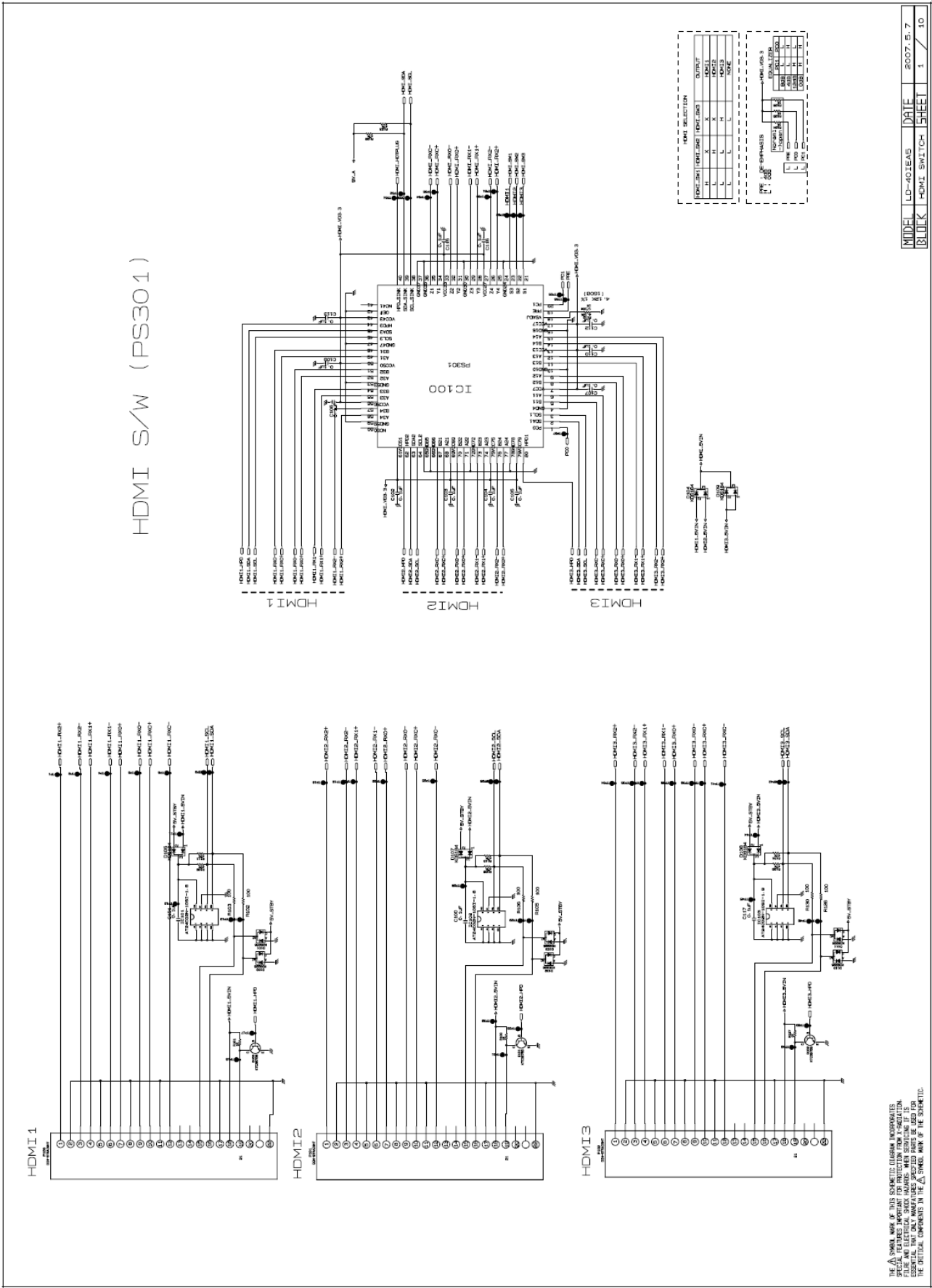
■MAIN TOP SILK



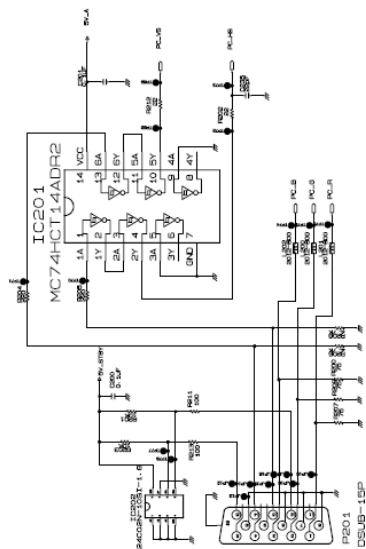
■MAIN BOTTOM SILK



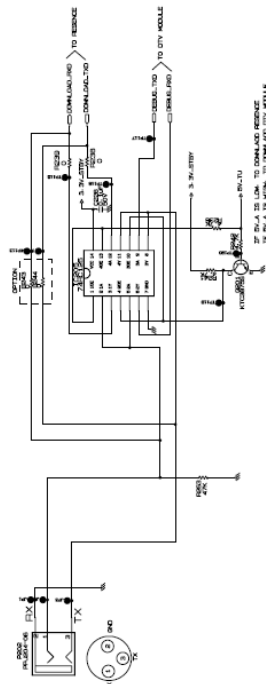
10. SCHEMATIC DIAGRAM



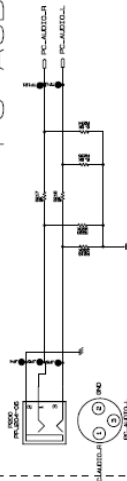
PC-RGB



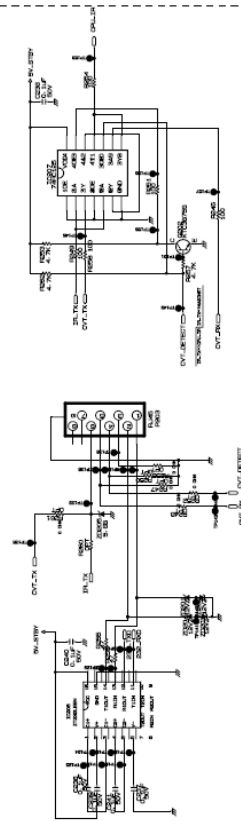
DOWNLOAD



PC-AUDIO

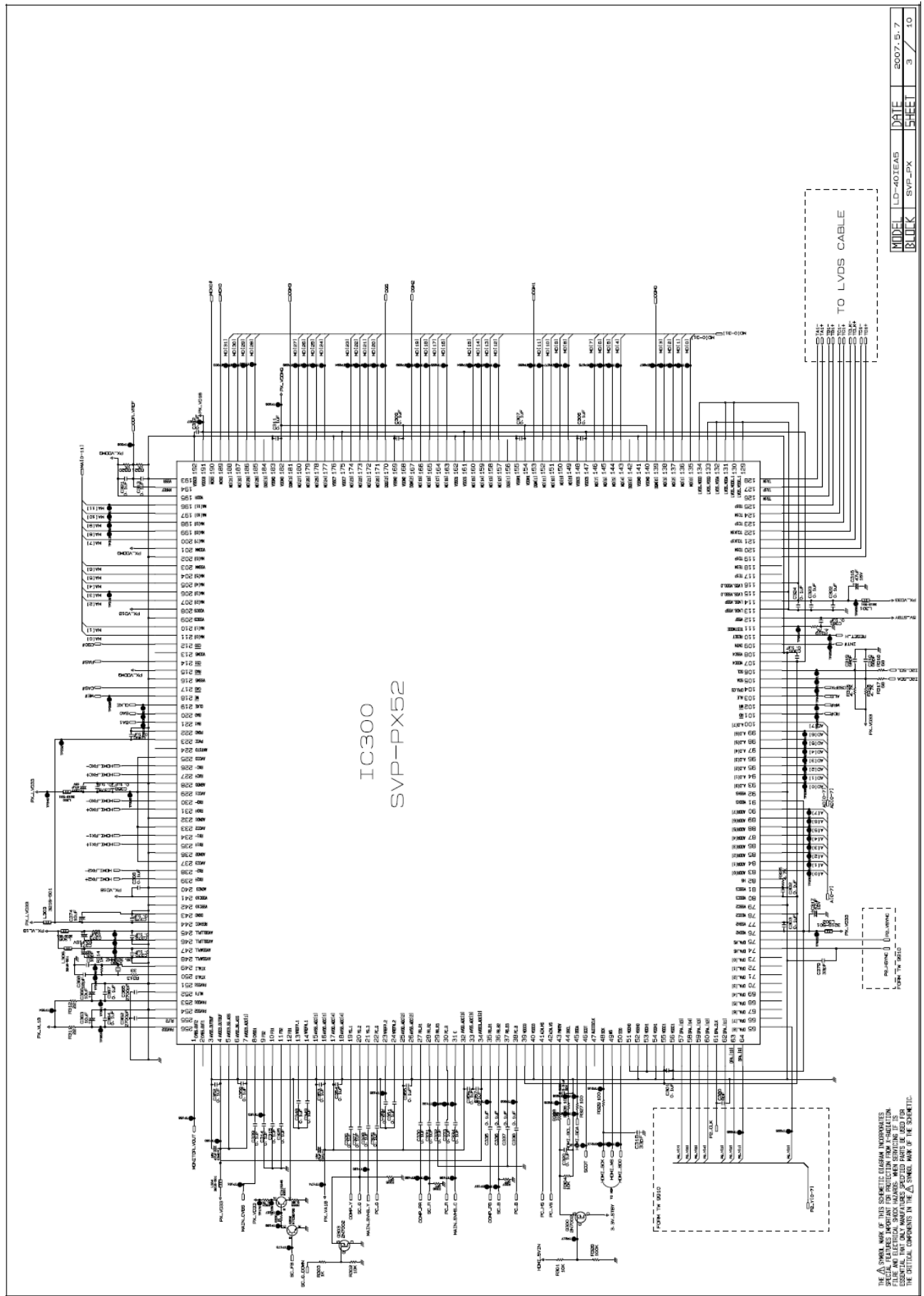


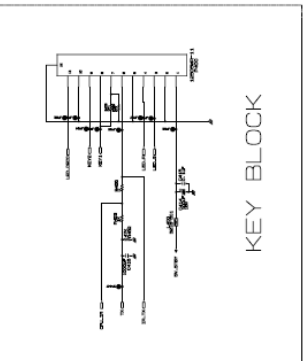
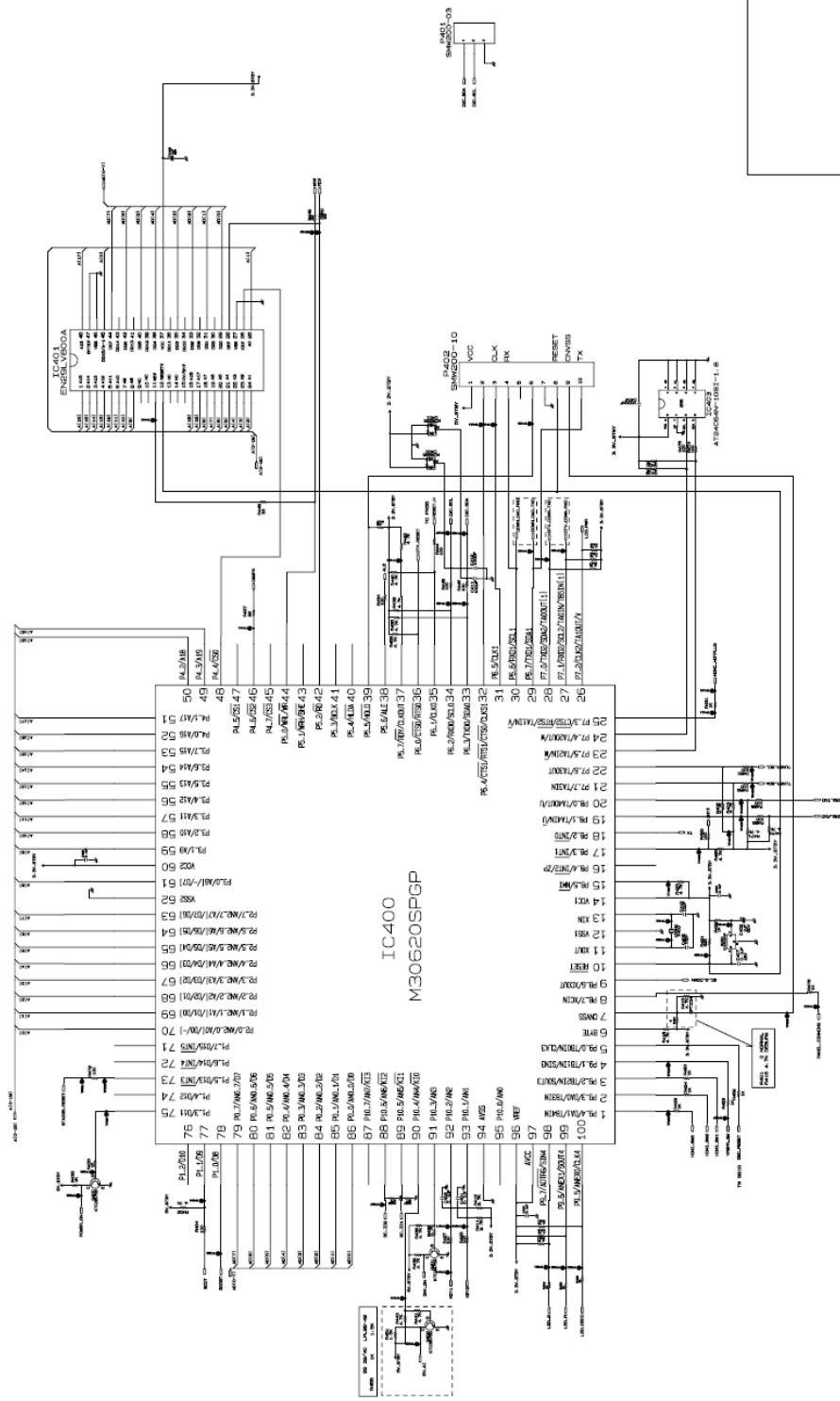
RJ45: SMART-LINK OPTION

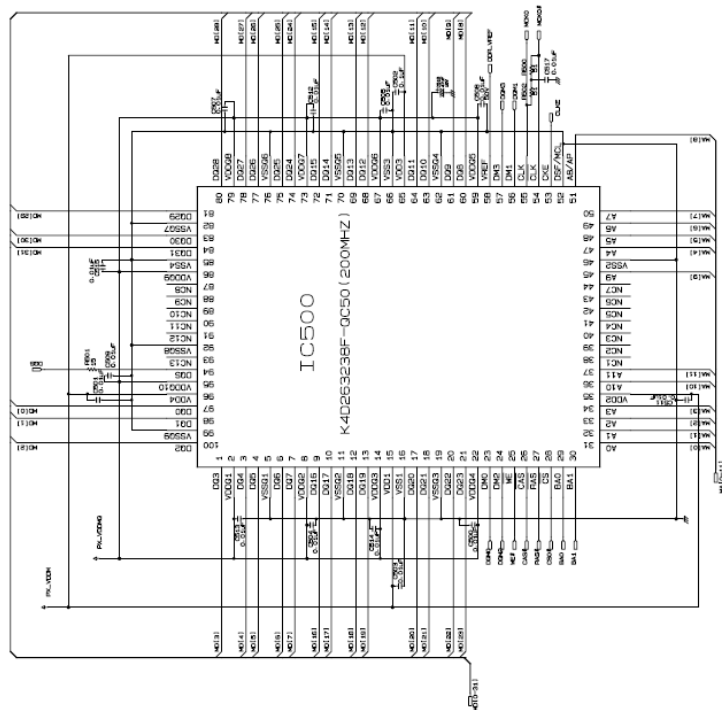


THE  SYMBOL MARK OF THIS SCHEMATIC ELEMENT REPRESENTS THE SPECIFIC ELECTRICAL SYMBOLS SHOWN HEREIN. WHEN SERVING IT IS THE USER'S RESPONSIBILITY TO OBTAIN THE SPECIFIC ELECTRICAL SYMBOLS FROM THE MANUFACTURER OF THE SCHEMATIC ELEMENTS IN THE SCHEMATIC.

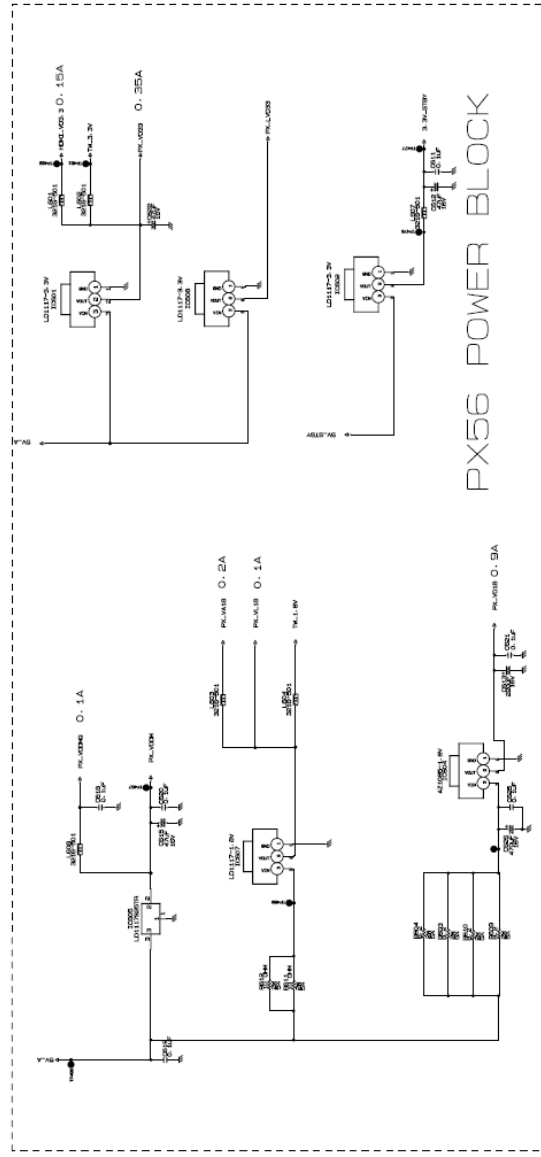
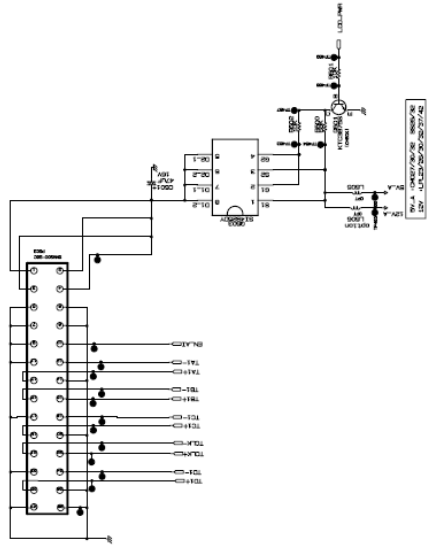
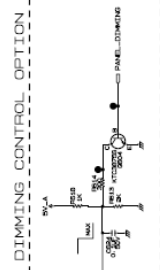
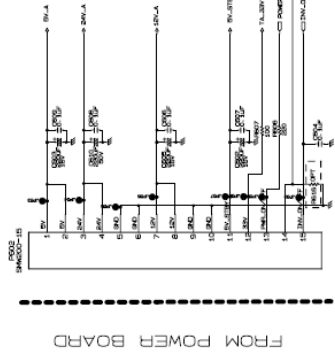
MODEL	LD-40IE45	DATE	2007.5.7
BLOCK	PC RGB INPUT	SHEET	2 / 10



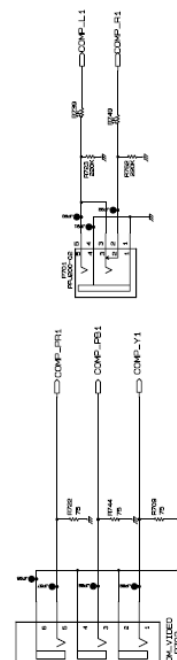
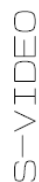
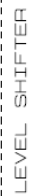
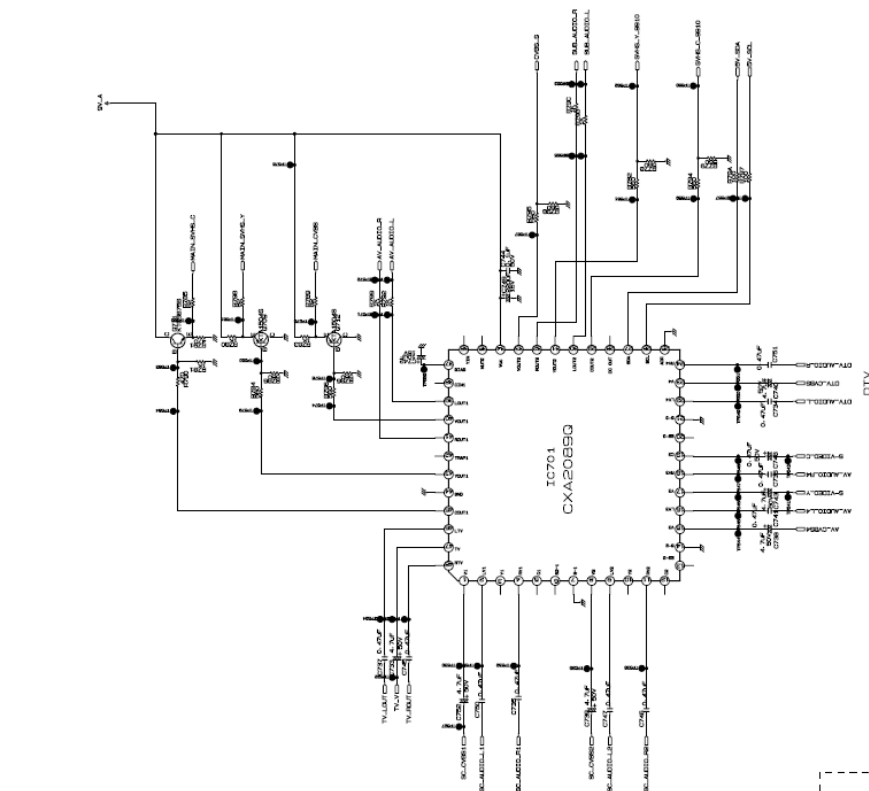
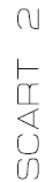




THE Δ SYMBOL MARK OF THIS SEMICONDUCTOR INDICATES A SPECIAL FEATURE. IT IS A WARNING THAT THE ELECTRICAL CHARACTERISTICS OF THE DEVICE MAY BE AFFECTED BY THE PRESENCE OF THE Δ SYMBOL MARK OF THE SEMICONDUCTOR.



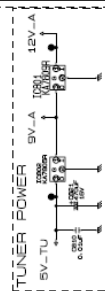
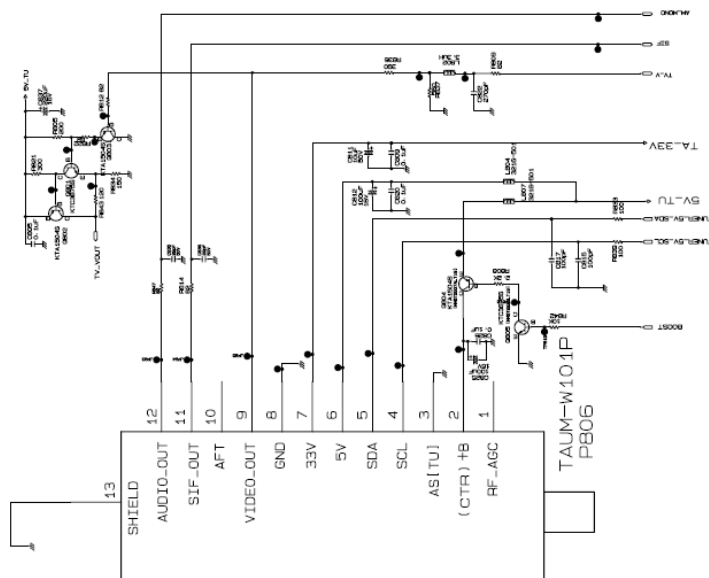
THE DIMMING CONTROL OPTION IS A SPECIAL FEATURE OF THE PX56 POWER BLOCK. IT PROVIDES PROTECTION FROM OVERHEATING AND ELECTRICAL SHOCK HAZARDS. WHEN SELECTED, IT IS INDICATED BY A DIMMING CONTROL SIGNAL. THE DIMMING CONTROL SIGNAL IS A PULSED SIGNAL. THE DIMMING CONTROL SIGNAL IS A PULSED SIGNAL. THE DIMMING CONTROL SIGNAL IS A PULSED SIGNAL.



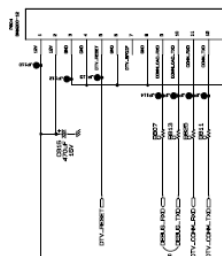
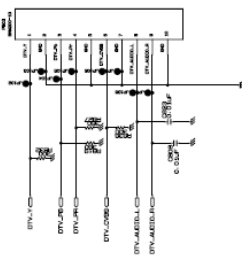
THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. IF FLAME AND ELECTRICAL SHOCK HAZARDS, WHEN SERVING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.

MODEL	LD-40IEA5	DATE	2007.5.7
BLOCK	AV INPUT	SHEET	7 / 10

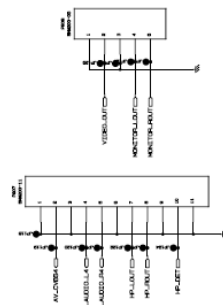
ANALOG TUNER



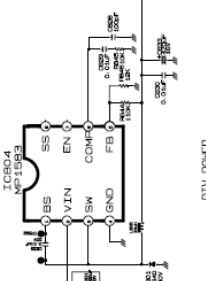
TO DVB-T CI MODULE



SIDE AV OPTION

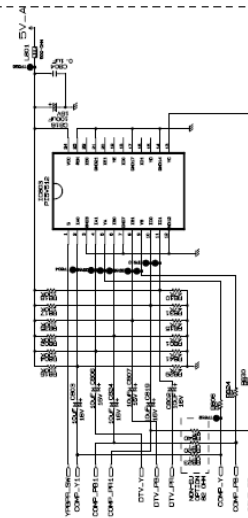


DC-DC BLOCK



DIV POWER

COMPONENT S/W



THE SYMBOLS OF THIS SCHEMATIC DIAGRAM REPRESENTS A FILM AND ELECTRICAL SYMBOLS. WHEN SERVING IF IS THE SYMBOLS OF THE SCHEMATIC DIAGRAM. THE SYMBOLS OF THE SCHEMATIC DIAGRAM.

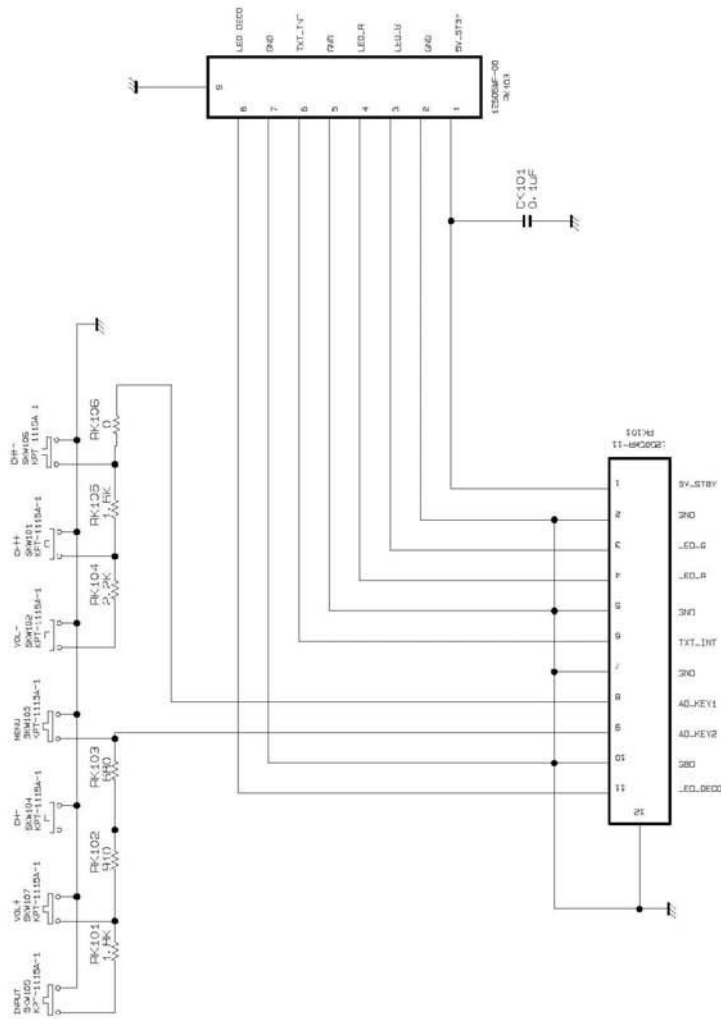
MIDEL	LD-401EAB	DATE	2007.5.7
BLOCK	TUNER	SHEET	8 / 10

$$\sum_{\mathbf{r} \in \mathcal{R}_i} \mathcal{G}_{\mathbf{r}}(\mathbf{r})$$


THE  SYMBOL MARK OF THIS SOHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FILTRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SOHEMETIC.

MODEL	LD-40IEA5	DATE	2007.5.7
BLOCK	POWER. AMP	SHEET	9 / 10

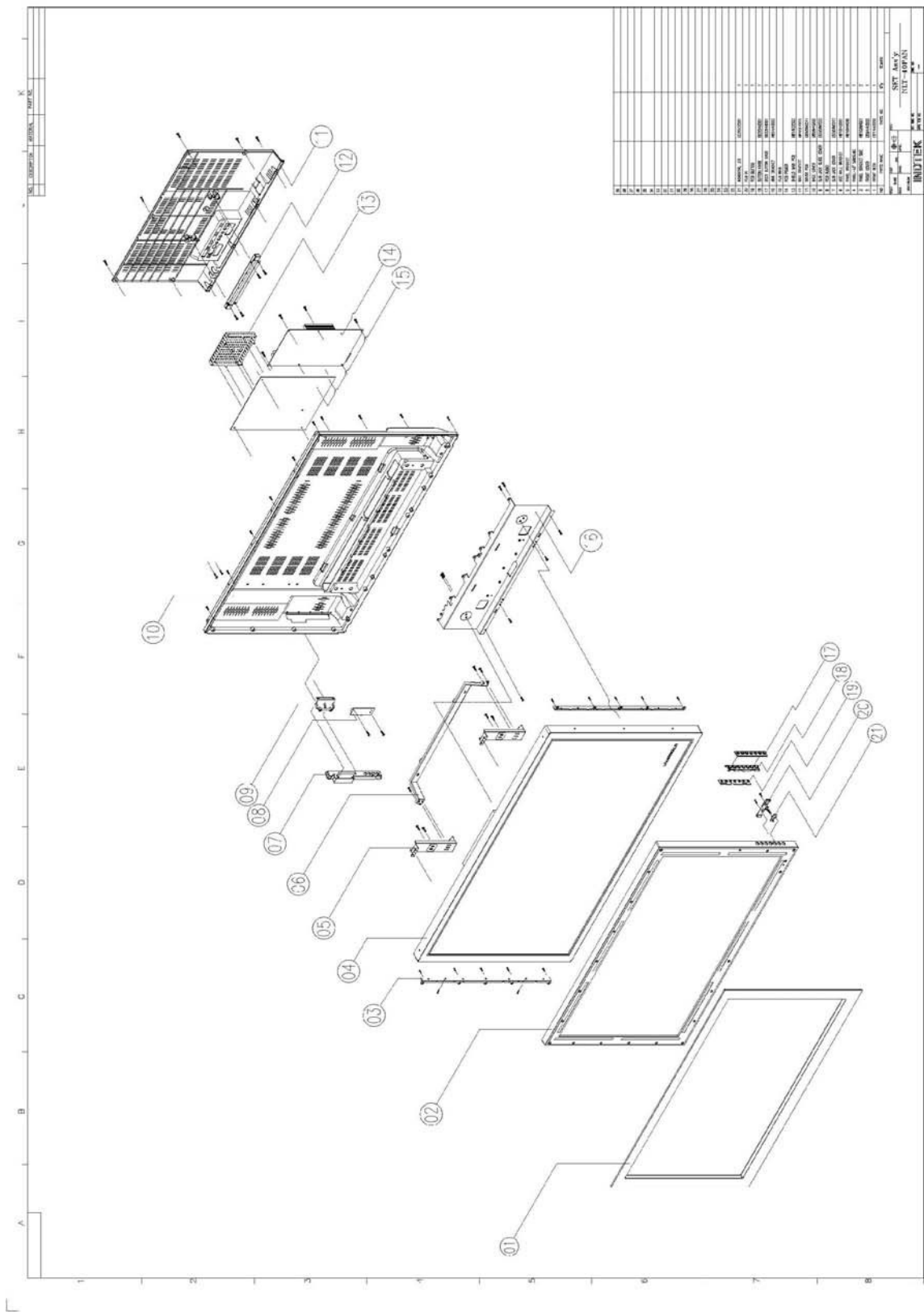
35



THE SYMBOLO MARK OF THE SCHEMATIC.

MODEL	KEY	BUTTON	DATE
BLOCK			SHEET

11. EXPLODED VIEW
-LC-40IHx5



12. REPLACEMENT PARTS LIST

○ LC-40IH*5

P / N	규격	회로번호
A2C7L40MNB3	LC-40IM/HA5 MAIN PCB ASS'Y REV1.3	ASS01;
A3C7L40MNB3	LC-40IM/HA5 MAIN(MANUAL INSERT) REV1.3	ASS02;
JA13RCFR037	AVK3-662-0200 (COMP 3P GR-BU-RD), Vertical type	P702;
JA12RCFR021	AVK3-662-029A(RCA_L/R WITH S/W RD-WH), Vertical type	P701;
JA1DSUFR154	D_SUB FEMALE 15P DR-15P, Vertical type	P201;
JA1EARFR014	CKX-3.5-36, (PHONE-JACK) Vertical type	P200,P202;
JA13RCFR038	HAV3-8.4-16PB (A/V 3P SCART TYPE YL-WH-RD WITH S/W) Vertical type	P703,P705;
JA1SVHFR014	PSJ014-01 (S_VIDEO), Vertical type	P704;
WA1200WS050	SMW200-05P (DIP) , YEONHO	P808;
WA1200WS080	SMW200-08P (DIP) , YEONHO	P1001;
WA1200WS110	SMW200-11P (DIP) , YEONHO	P807;
WA1200WS150	SMW200-15P (DIP) , YEONHO	P602;
WA1200WS280	SMW200-28C (DIP) DUAL , YEONHO	P603;
SPDIFVST5V0	VST5V, Vertical type, VICONET	P901;
0XR18432P10	HC49U RADIAL 18.432MHZ 30ppm 10 pF BK	X901;
0XR10000P30	ATS-49U RADIAL 10.000MHZ 50ppm 30 pF	X400;
0XR28322P18	ATS-49U RADIAL 28.322MHZ 20ppm 18 pF	X300;
0XR27000P20	HC49U RADIAL 27.000MHZ 25ppm 20 pF BK	X201;
1LR7500X220	22uH, CPS-01-220(CH-8010S), GET	L1001,L1002,L1003,L1004;
I4814V32003A	ACE 32G EMI SHIELD T0.5	
HEAT263210X	26mmX32mm, 10mm	IC300;
A4C7L40MNB3	LC-40IM/HA5 MAIN(AUTO INSERT_RADIAL) REV1.3	ASS03;
OCE051CA106	10uF STD 16V M FL TP5 (5X11 85°C)	C363,C366,C371,C373,C374,C742,C903,C907,C909,C925,C937,C941,C1014;
OCE051HA106	10uF STD 50V M FL TP5 (5X11 85°C)	C811;
OCE051CA107	100uF STD 16V M FL TP5 (6.3X11 85°C)	C220,C221,C224,C414,C812,C825,C917,C929,C936,C939;
OCE051CA227	220uF STD 16V M FL TP5 (8X11.5 85°C)	C601,C602,C603,C605,C613,C749,C837,C1012;
OCE051HA227	220uF STD 50V M FL TP5 (10X16 85°C)	C610;
OCE051CA476	47uF STD 16V M FL TP5 (5X9 85°C)	C316,C317,C340,C341,C377,C518,C612,C615,C622;
OCE051CA477	470uF STD 16V M FL TP5 (10X12.5 85°C)	C626,C713,C821,C836,C1045;
OCE051VA477	470uF STD 35V M FL TP5 (10X16 85°C)	C1017,C1021;

OCE051HA105	1uF STD 50V M FL TP5 (5X11 85°C)	C405,C409,C614;
OCE051HA226	22uF STD 50V M FL TP5 (5X11 85°C)	C910,C942;
OCE051HA335	3.3uF STD 50V M FL TP5 (5X11 85°C)	C920;
OCE051HA474	0.47uF STD 50V M FL TP5 (5X11 85°C)	C748;
OCE051CA475	4.7uF STD 16V M FL TP5 (5X11 85°C)	C733,C752,C739,C738,C743,C740;
ORR052WJ8R2	8.2 OHM 2 W 5.00% Super Mini Register	R603,R604,R609,R610;
ORR052WJ100	10 OHM 2 W 5.00%	R611,R612;
A5C7L40MNB3	LC-40IM/HA5 MAIN(SMD_TOP) REV1.3	ASS04;
P070L40M2E3	L*-40I**5 REV 1.3 BLUE-EYE/ACE (EU/HK/ME/LA)	
OLC205BM3R3	3.3uH Inductor 50mA 2012 20%	L701,L702,L703,L704,L705,L706,L802;
OBC20A3N800	CHIP BEAD 2012 800 (80Ω)	L200,L201,L202;
OBC322AN501	CHIP BEAD 3216 501 (500Ω)	L203,L300,L301,L302,L303,L304,L305,L306,L400,L601, L602,L603,L604,L605,L607,L608,L804,L901,L902,L807;
OCC161CM474	0.47uF 16V 20% 1608 R/TP (474)	C735,C741,C736,C734,C737,C751,C745,C746,C747,C750, C905,C911,C912,C918,C921,C924,C934,C944,C947,C948;
OCC321HK474	0.47uF 50V 10% 3216 R/TP (474)	C1035,C1036;
OCC161VK010	1pF 50V 10% 1608 R/TP (010)	C927,C938;
OCC161VK101	100pF 50V 10% 1608 R/TP (101)	C411,C412,C815,C817,C1004;
OCC161VK102	1000pF 50V 10% 1608 R/TP (102)	C404,C416;
OCC201VK102	1000pF 50V 10% 2012 R/TP (102)	C1037,C1038,C1039,C1040,C1041,C1042;
OCC161VK122	1200pF 50V 10% 1608 R/TP (122)	C1003;
OCC161VK103	0.01uF 50V 10% 1608 R/TP (103)	C300,C500,C501,C503,C504,C505,C507,C508,C509,C511, C512,C513,C514,C515,C517,C701,C707,C715,C720,C725, C726,C810,C915,C919,C926,C928,C930,C931;
OCC161VK080	8pF 50V 10% 1608 R/TP (080)	C380;
OCC161VK150	15pF 50V 10% 1608 R/TP (150)	C408,C410;
OCC161VK180	18pF 50V 10% 1608 R/TP (180)	C368,C369;
OCC161VK220	22pF 50V 10% 1608 R/TP (220)	C217,C218,C235,C836;
OCC161VK271	270pF 50V 10% 1608 R/TP (271)	C822;
OCC161VK272	2700pF 50V 10% 1608 R/TP (272)	C362,C365;
OCC161VK221	220pF 50V 10% 1608 R/TP (221)	C1002;
OCC161VK330	33pF 50V 10% 1608 R/TP (330)	C318,C379;
OCC161VK331	330pF 50V 10% 1608 R/TP (331)	C728,C730;
OCC201VK331	330pF 50V 10% 2012 R/TP (331)	C1023,C1024,C1025,C1026;
OCC161VK470	47pF 50V 10% 1608 R/TP (470)	C723;
OCC161VK472	4700pF 50V 10% 1608 R/TP (472)	C901,C913,C922,C923,C933,C943,C949,C950;

OCC161VK560	56pF 50V 10% 1608 R/TP (560)	C906,C932;
OCC161VK680	68pF 50V 10% 1608 R/TP (680)	C226,C227,C310,C319,C1010,C1011;
OCC161VM104	0.1uF 50V 20% 1608 R/TP (104)	C100,C101,C102,C103,C104,C105,C107,C110,C112,C115, C116,C117,C113,C109,C106,C200,C201,C204,C208,C210, C212,C213,C214,C215,C216,C222,C223,C225,C301,C914, C302,C303,C305,C306,C307,C308,C309,C311,C312,C313, C314,C315,C320,C321,C322,C323,C324,C325,C326,C327, C328,C329,C330,C331,C332,C333,C334,C335,C336,C337, C338,C339,C348,C349,C350,C351,C352,C353,C354,C355, C356,C357,C358,C359,C360,C361,C364,C367,C370,C372, C375,C378,C400,C401,C402,C403,C406,C415,C407,C502, C604,C606,C607,C608,C609,C611,C618,C619,C620,C621, C624,C625,C744,C805,C809,C820,C826,C902,C904,C916, C1001,C1005,C1006,C1007,C1008,C1009,C1013,C1018,C10 20,C1046, C1047;
OCC201VM104	0.1uF 50V 20% 2012 R/TP (104)	C1015,C1016,C1027,C1028,C1029,C1030;
OCC201VM224	0.22uF 50V 20% 2012 R/TP (224)	C1031,C1032,C1033,C1034;
OCC321HK105	1uF 50V 10% 3216 R/TP (105)	C1019,C1022;
ORC161RJ000	0 OHM 1/10W 1608 5% D (000)	R243,R244,R401,R466,R480,R79E,R79F,R1033;
ORC161RJ010	1 OHM 1/10W 1608 5% D (010)	R1003,R1005;
ORC161RJ101	100 OHM 1/10W 1608 5% D (101)	R102,R103,R105,R106,R128,R130,R211,R213,R228,R233,
		R326,R327,R329,R404,R426,R427,R428,R434,R444,R445,
		R446,R459,R460,R607,R79A,R797,R833,R839,R915,R925,
		R926,R1006,R1007,R472,R474,R475,R231,R232;;
ORC208RJ120	12 OHM 1/8W 2012 5% D (120)	R1017,R1018,R1019,R1020,R1021,R1022,R1023,R1024;
ORC161RJ121	120 OHM 1/10W 1608 5% D (121)	R843;
ORC161RJ102	1K OHM 1/10W 1608 5% D (102)	R101,R100,R127,R320,R321,R330,R408,R409,R420,R422, R424,R430,R431,R433,R453,R462,R465,R618,R705,R739, R749,R752,R761,R765,R771,R780,R781,R783,R792,R799, R79C,R79D,R910,R911,R916,R919,R920,R921,R923,R928, R931,R932,R936,R937,R429,R476,R303;
ORC161RJ103	10K OHM 1/10W 1608 5% D (103)	R201,R203,R301,R304,R308,R601,R602,R718,R842,R302;
ORC161RJ104	100K OHM 1/10W 1608 5% D (104)	R328;
ORC161RJ105	1M OHM 1/10W 1608 5% D (105)	R229,R314,R924;
ORC161RJ151	150 OHM 1/10W 1608 5% D (151)	R834;
ORC161RJ153	15K OHM 1/10W 1608 5% D (153)	R738,R768;

ORC161RJ201	200 OHM 1/10W 1608 5% D (201)	R805;
ORC161RJ202	2K OHM 1/10W 1608 5% D (202)	R217,R218,R613;
ORC161RJ220	22 OHM 1/10W 1608 5% D (220)	R202,R212,R311,R312,R437,R449,R450;
ORC161RJ221	220 OHM 1/10W 1608 5% D (221)	R204,R205,R606,R938,R939,R940;
ORC161RJ222	2.2K OHM 1/10W 1608 5% D (222)	R808;
ORC161RJ223	22K OHM 1/10W 1608 5% D (223)	R421;
ORC161RJ224	220K OHM 1/10W 1608 5% D (224)	R216,R220,R701,R708,R710,R720,R723,R742,R746,R762, R774,R777;
ORC161RJ272	2.7K OHM 1/10W 1608 5% D (272)	R411,R412,R451;
ORC161RJ301	300 OHM 1/10W 1608 5% D (301)	R614,R821;
ORC161RJ3R3	3.3 OHM 1/10W 1608 5% D (3R3)	R1035,R1036;
ORC161RJ330	33 OHM 1/10W 1608 5% D (330)	R245,R313,R448;
ORC161RJ391	390 OHM 1/10W 1608 5% D (391)	R836;
ORC161RJ392	3.9K OHM 1/10W 1608 5% D (392)	R1004;
ORC208RJ470	47 OHM 1/8W 2012 5% D (470)	R1009,R1010,R1011,R1012,R1013,R1014,R1015,R1016;
ORC161RJ471	470 OHM 1/10W 1608 5% D (471)	R790,R791,R922,R927,R933,R935;
ORC161RJ472	4.7K OHM 1/10W 1608 5% D (472)	R206,R208,R230,R315,R316,R319,R325,R331,R400,R402, R403,R405,R410,R413,R414,R415,R417,R418,R419,R423, R425,R432,R435,R436,R438,R439,R440,R441,R442,R443, R454,R455,R736,R748,R753,R769,R908,R913,R914,R917, R918,R1001,R1002;
ORC161RJ473	47K OHM 1/10W 1608 5% D (473)	R108,R109,R110,R111,R122,R123,R129,R131,R447,R452;
ORC161RJ474	470K OHM 1/10W 1608 5% D (474)	R726,R758;
ORC161RJ412	4.12K OHM 1/10W 1608 1% D (412)	R112;
ORC161RJ4R7	4.7 OHM 1/10W 1608 5% D (4R7)	R930;
ORC161RJ510	51 OHM 1/10W 1608 5% D (510)	R500,R502;
ORC161RJ561	560 OHM 1/10W 1608 5% D (561)	R795,R796,R79B,R782,R778,R784,R794,R779,R786,R788, R837;
ORC161RJ680	68 OHM 1/10W 1608 5% D (680)	R317,R318;
ORC161RJ682	6.8K OHM 1/10W 1608 5% D (682)	R234,R235,R335;
ORC161RJ683	68K OHM 1/10W 1608 5% D (683)	R600;
ORC161RJ750	75 OHM 1/10W 1608 5% D (750)	R200,R207,R209,R702,R709,R713,R722,R740,R744,R755, R757,R763;
ORC161RJ820	82 OHM 1/10W 1608 5% D (820)	R715,R724,R785,R789,R798,R809,R812,R814,R822,R847, R823,R820,R840,R941;

ORC161RJ100	10 OHM 1/10W 1608 5% D (100)	R501;
1FC2N702FIR	2N7002, SOT-23, N-Channel Enhancement mode FET, FAIRCHILD	Q300,Q303,Q701,Q703,Q707,Q708;
1FCI4925TEM	SI4925DY, TEMIC, SO-8, 30V 6.1A	Q603;
2TCT29070SE	MMBT2907ALT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTA1504 □□)	Q301,Q709,Q712,Q802,Q803,Q804,Q902,Q905;
2TCT22220SE	MMBT2222LT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTC3875 □□)	Q100,Q101,Q102,Q302,Q400,Q401,Q402,Q601,Q604,Q711, Q801,Q805;
2TCTH10LOSE	MMBTH10LT1G, ON SEMI, SOT-23 (Pb-Free), VHF band amp (KTC3881 □□)	Q903,Q904,Q906,Q907;
2DCV70LTOSE	BAV70LT1G, ON SEMI, SOT-23 high speed switching (KDS184 □□)	D104,D106,D107,D108,D109;
2DCV99LTOSE	BAV99LT1G, ON SEMI,SOT-23 (Pb-Free) high speed switching (KDS226 □□)	D100,D101,D102,D103,D110,D111,D400,D401;
ISAZ7027BCD	AZ7027RTR SOT-89-3 2.7V BCD	IC404;
IS7042AFKEC	KIA7042AF 3P SOT-89 R/TP KEC	IC901;
IQM30300REN	M30300SAGP LQFP 100P6Q-A 16-BIT RENESAS	IC400;
IQ29LV80EON	EN29LV800BT TSOP 48P 8Mb EON	IC401;
IS74HT04PHI	74HCT04D, HEX INVERTING SCHMITT TRIGGER 14P	IC903;
0ISHCT14000	74HCT14D Hex inveting Schmitt trigger	IC201;
IQK4D263SAM	K4D263238I-UC50, TQFP 128Mb SDRAM SAMSUNG	IC500;
IS0335BWSTO	STA335BW 2 X 30W Stereo Audio Amp Powerss036 ST	IC1002;
IQ4450K1NAS	MSP4450K-VK-E8-PQFP80-1 TRAY MICRONAS	IC904;
IQA2089QSON	CXA2089Q 48QFP BK SONY	IC701;
IS0PS301PAR	PS301 3IN-10UT HDMI S/W TQFP80G PARADE TECH	IC100;
IQTW9910THE	TW9910 QFN 48P TRAY TECHWELL	IC204;
IS024C02ATM	AT24C02N-10SI-1.8 8S1 ATMEL	IC101,IC102,IC103,IC202;
IS024256ATM	AT24C256 SOP8 ATMEL	IC403;
IS180518BCD	AZ1085S-1.8E1, 1.8V 3A,T0-263-3L BCD	IC604;
ISAZ7808BCD	AZ7808D-E1 8V 1A T0-252 BCD	IC902;
ISAZ7805BCD	AZ7805D-E1 5V 1A T0-252 BCD	IC802,IC905;
ISAZ7809BCD	AZ7809D-E1 9V 1A T0-252 BCD	IC801;
ISLD1117ST0	LD1117S18TR SOT-223 1.8V 800mA, ST	IC607;
ISLD1117ST1	LD1117S25TR SOT-223 2.5V 800mA, ST	IC605;

ISLD1117ST2	LD1117S33TR SOT-223 3.3V 800mA, ST	IC601,IC602,IC608,IC1001;
WA1125WR110	12505WR-11 (SMD) , YEONHO	P400;
JA1HDIFR192	HDMI (SMD , Vertical type)	P100,P101,P102;
IQSVPX52TRI	SVP-PX52 PQFP 256P TRIDENT SCALER+VIDEO DECORDER	IC300;
A2C7L00KNB0	L*-32/40I**5 KEY PCB ASS'Y REV1.0	ASS017
A4C7L00KNB0	L*-32/40I**5 KEY(AUTO INSERT_RADIAL) REV1.0	ASS018
TACSWIT313B	TACT 2LEAD 160G(TA) 140-313B, (DIOS)	SWK101,SWK102,SWK103,SWK104,SWK105,SWK106,SWK107
A5C7L00KNB0	L*-32/40I**5 KEY(SMD_TOP) REV1.0	ASS019
P070L32K2W2	L*-32/40I**5 NEW BLUE-EYE KEY REV1.0	RK01
0RC161RJ000	0 OHM 1/10W 1608 5% D (000)	RK106
0RC161RJ162	1.6K OHM 1/10W 1608 5% D (162)	RK105
0RC161RJ182	1.8K OHM 1/10W 1608 5% D (182)	RK101
0RC161RJ222	2.2K OHM 1/10W 1608 5% D (222)	RK104
0RC161RJ681	680 OHM 1/10W 1608 5% D (681)	RK103
0RC161RJ911	910 OHM 1/10W 1608 5% D (911)	RK102
OCC161VM104	0.1uF 50V 20% 1608 R/TP (104)	CK101
WA1125WR080	12505WR-08 (SMD) , YEONHO	PK103
WA1125WR110	12505WR-11 (SMD) , YEONHO	PK101
A2C7L00INB0	L*-32/40I**5 IR PCB ASS'Y REV1.0	ASS019
A3C7L00INB0	L*-32/40I**5 IR(MANUAL INSERT) REV1.0	ASS020
IDTS1238VIS	TSOP1238RF1, VISHAY	IR101
1DXM5270AUK	SAM5270, kwang (5.8 x 22), dual color LED (red, green)	DI101
A5C7L00INB0	L*-32/40I**5 IR(SMD_TOP) REV1.0	ASS021
P070L32I2W2	L*-32/40I**5 NEW BLUE-EYE IR REV1.0	IR01
0RC161RJ000	0 OHM 1/10W 1608 5% D (000)	RI108
0RC161RJ472	4.7K OHM 1/10W 1608 5% D (472)	RI101;
0RC161RJ471	470 OHM 1/10W 1608 5% D (471)	RI102,RI103,RI106,RI107;
0RC161RJ561	560 OHM 1/10W 1608 5% D (561)	RI105;
0RC161RJ681	680 OHM 1/10W 1608 5% D (681)	RI104;
OBC322AN501	CHIP BEAD 3216 501 (500Ω)	LI101;
2TCT22220SE	MMBT2222LT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTC3875 □□)	QI101,QI102,QI103;
WA1125WR080	12505WR-08 (SMD) , YEONHO	PI102
WA1125WR020	12505WR-02 (SMD) , YEONHO	PI101

A2C7L00SNB0	NEW BLUE-EYE NON EU SIDE AV PCB ASS'Y REV1.0	ASS011
A3C7L00SNB0	NEW BLUE-EYE NON EU SIDE AV(MANUAL INSERT) REV1.0	ASS012
WA1200WS050	SMW200-05P (DIP) , YEONHO	PS104;
WA1200WS110	SMW200-11P (DIP) , YEONHO	PS103;
JA1EARFR010	UEJ-CV-003 (EAR-PHONE)	PS102;
JA13RCFR031	PPJ128A-2 (A/V 3P WITH S/W RD-WH-YL)	PS100,PS101;
A4C7L00SNB0	NEW BLUE-EYE NON EU SIDE AV (SMD_TOP) REV1.0	ASS013
P070L00S2W0	L*.* **5 BLUE-EYE NON EU SIDE AV REV 1.0	
0LC205BM3R3	3.3uH Inductor 50mA 2012 20%	LS100;
0CC161VK331	330pF 50V 10% 1608 R/TP (331)	CS100;
0CC161VK103	0.01uF 50V 10% 1608 R/TP (103)	CS101,CS102;
0CC161VK223	0.022uF 50V 10% 1608 R/TP (223)	CS103,CS104;
0RC161RJ750	75 OHM 1/10W 1608 5% D (750)	RS100,RS106;
0RC161RJ820	82 OHM 1/10W 1608 5% D (820)	RS101;
0RC161RJ224	220K OHM 1/10W 1608 5% D (224)	RS104,RS105;
0RC161RJ102	1K OHM 1/10W 1608 5% D (102)	RS102,RS103;
0RC161RJ103	10K OHM 1/10W 1608 5% D (103)	RS107;
0RC161RJ473	47K OHM 1/10W 1608 5% D (473)	RS108,RS109;
A2T6L460N02	LC-40/46IEA3 AUDIO OUT PCB REV 1.2 ASS'Y	ASS013
A3T6L460N02	LC-40/46IEA3 AUDIO OUT MANUAL_INSERT REV 1.2	ASS014
P060L4602W2	LC-32/40/46IEA3 AUDIO OUT REV1.2 061010	
WA1200WS020	SMW200-02P (DIP) , YEONHO	PC103;
WA1200WS080	SMW200-08P (DIP) , YEONHO	PC102;
WA1200WS090	SMW200-09P (DIP) , YEONHO	PC101;

■ PCB Rev. LIST

NO	PCB	Rev	NO	Remarks	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

■ Soft ware Rev. list

NO	M-com	Rev	Remarks	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				