



LCT TV

Service Manual

MODEL: LCT-32HSSTP

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SAFETY PRECAUTION

WARNING:

Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver.

The following are the necessary precautions to be observed before servicing this chassis.

1. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as: non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
2. When replacing parts or circuit boards, disconnect the power cord.
3. When replacing a high wattage resistor (oxide metal film resistor) on the circuit board, keep the resistor 10mm (1/2in) away from circuit board.
4. Connection wires must be kept away from components with high voltage or high temperature.
5. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.

PRODUCT SAFETY NOTICE

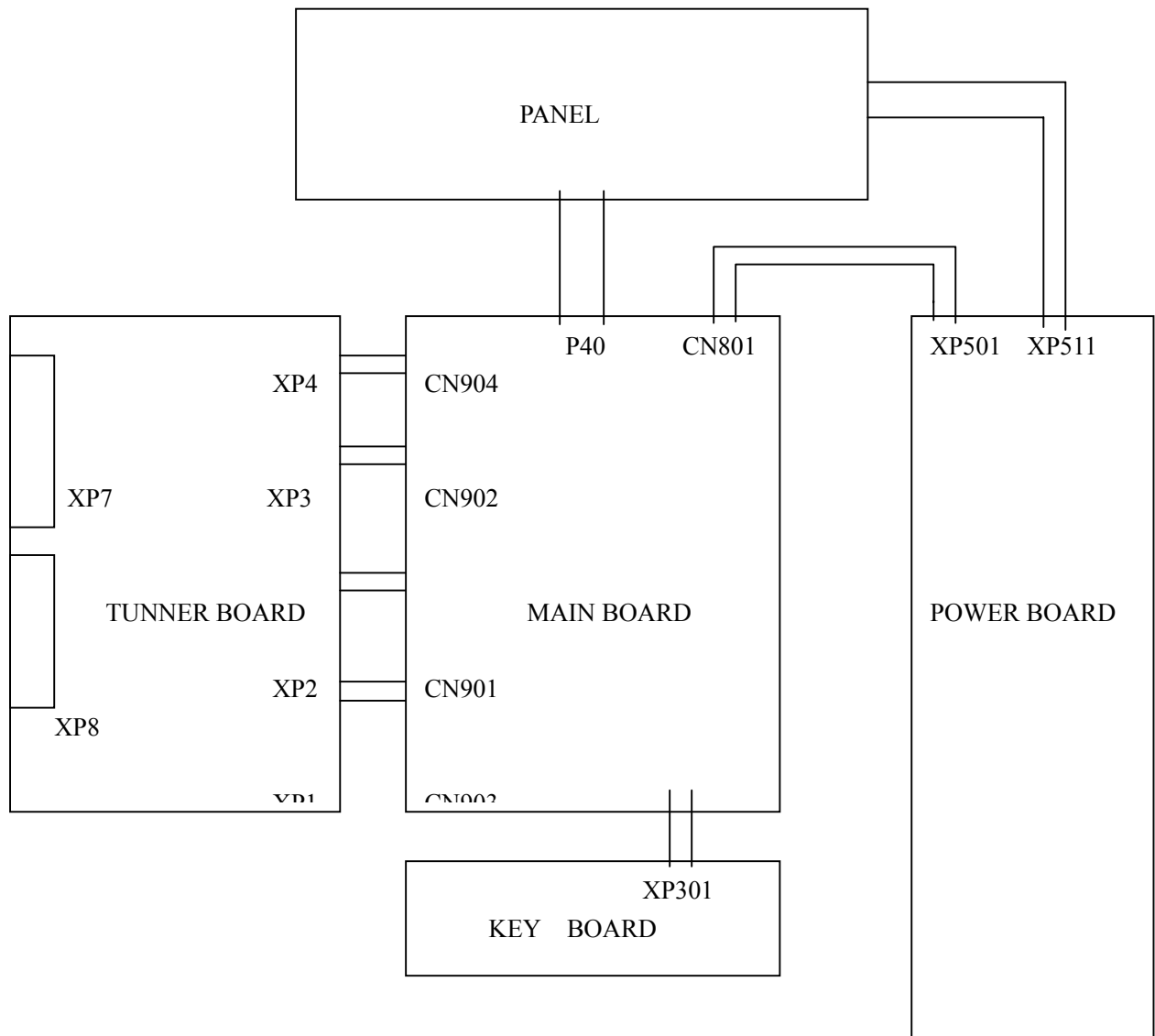
Many electrical and mechanical parts in the chassis have special safety-related characteristics.

These characteristics are often passed unnoticed by a visual inspection.

Replacement parts, which have these special safety characteristics are identified in this manual and its supplement electrical components having such features are shaded on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same characteristic as specified in the parts list may create shock, fire or other hazards.

BLOCK DIAGRAM



FUNCTION OF CONJUNCTION

CN801---XP501

ITEM	NAME	FUNCTION
1	5V	FOR PANEL POWER
2	PS	FOR POWER OFF
3	GND	GND
4	14V	FOR AUDIO POWER
5	PGND	AUDIO GND
6	12V	FOR MAIN POWER
7	12V	FOR MAIN POWER
8	GND	FOR MAIN GND
9	GND	FOR MAIN GND

CN902---XP4

ITEM	NAME	FUNCTION
1	GND	FOR AUDIO GND
2	14V	FOR AUDIO POWER
3	14V	FOR AUDIO POWER
4	GND	FOR AUDIO GND
5	12V	FOR AUDIO POWER
6	GND	FOR AUDIO GND
7	5.0V	TUNNER POWER

CN901---XP2

ITEM	NAME	FUNCTION
1	ADC1	FOR SCART1 AUTO IDENTIFY
2	ADC2	FOR SCART1 AUTO IDENTIFY
3	GND	GND
4	MUTE	AUDIO MUTE
5	RESET	MSP3410 RESET
6	GND	GND
7	SDA	FOR SERIAL DATA
8	SCL	FOR SERIAL CLOCK

CN901---XP2

ITEM	NAME	FUNCTION
1	GND	GND
2	CVBS	FOR TV'S CVBS SIGNAL
3	GND	GND
4	GREEN	FOR SCART GREEN
5	GND	GND
6	RED	FOR SCART RED
7	GND	GND
8	FB	FOR FAST BLANK
9	GND	GND
10	BLUE	FOR SCART BLUE
11	GND	GND
12	AVOUT	FOR MONITOR OUT

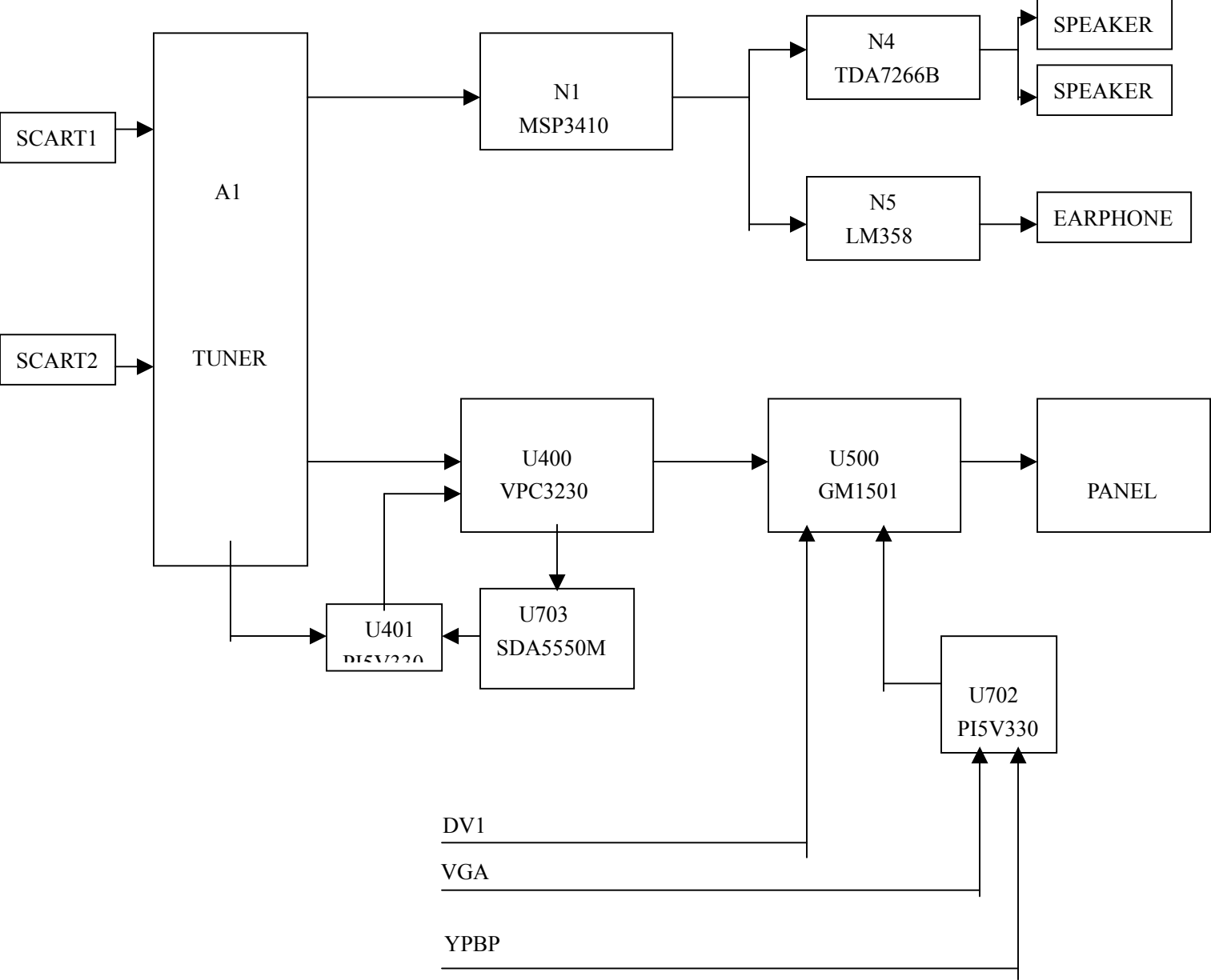
CN903---XP1

ITEM	NAME	FUNCTION
1	AV1-IN	FOR VIDEO1 IN
2	GND	GND
3	AV2-IN	FOR VIDEO2 IN
4	GND	GND
5	S-CIN	FOR C-IN
6	GND	GND

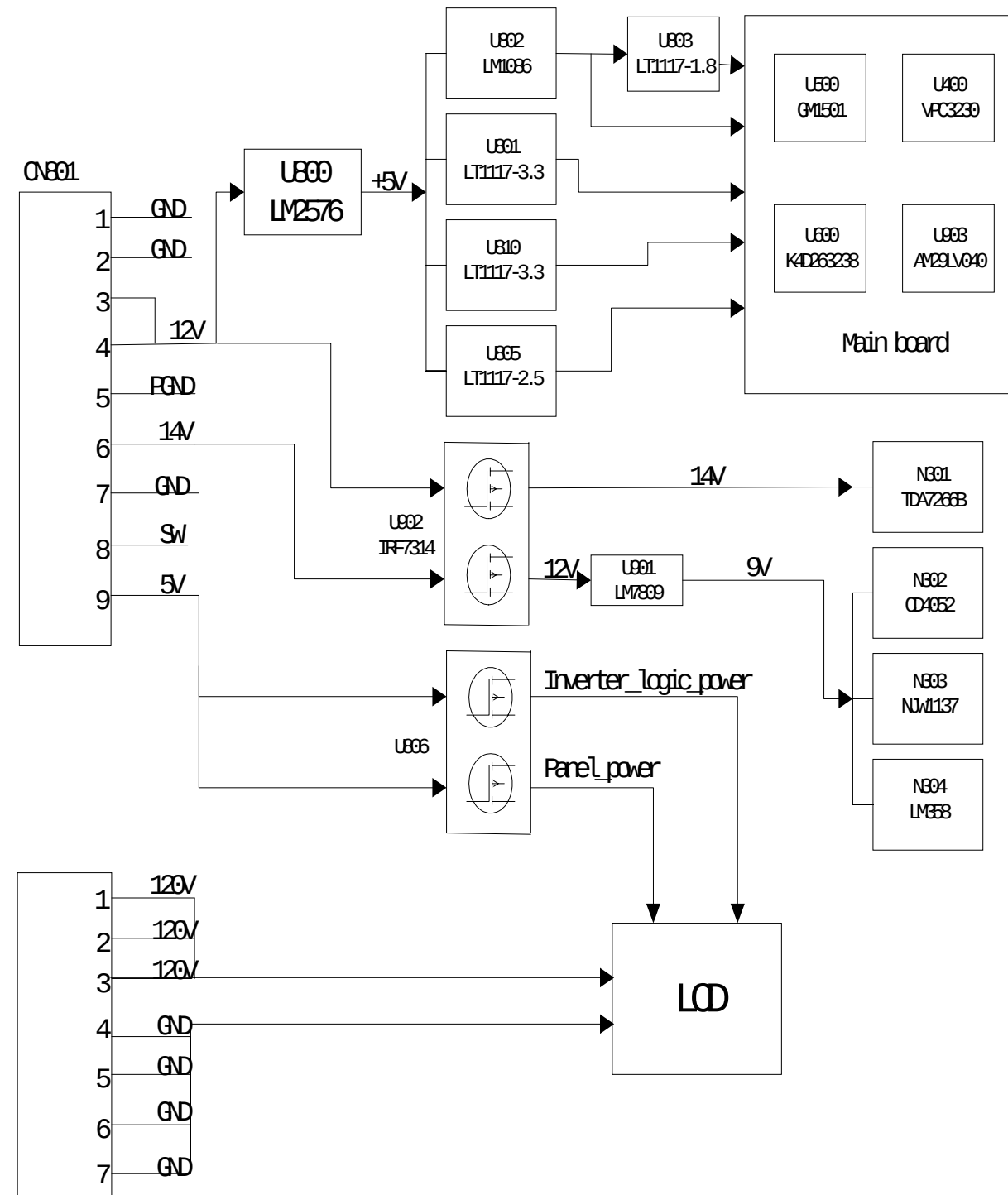
P40

ITEM	NAME	FUNCTION
1	PWM	PWM Dimming
2	APWM	Analog PWM dimming
3	ON/OFF	Backlight On~Off: 2.4-5.0V On 0-1V Off
4	GND	
5	RX0-	LVDS signal
6	RX0+	LVDS signal
7	GND	
8	RX1-	LVDS signal
9	RX1+	LVDS signal
10	GND	
11	RX2-	LVDS signal
12	RX2+	LVDS signal
13	GND	
14	RCLK-	LVDS clock signal
15	RCLK+	LVDS clock signal
16	GND	
17	RX3-	LVDS signal
18	RX3+	LVDS signal
19	GND	
20	N.C.	
21	N.C.	
22	N.C.	
23	GND	
24	GND	
25	GND	
26	Panel_power	Module power
27	Panel_power	Module power
28	Panel_power	Module power
29	Panel_power	Module power
30	Inverter_power	Inverter logic power

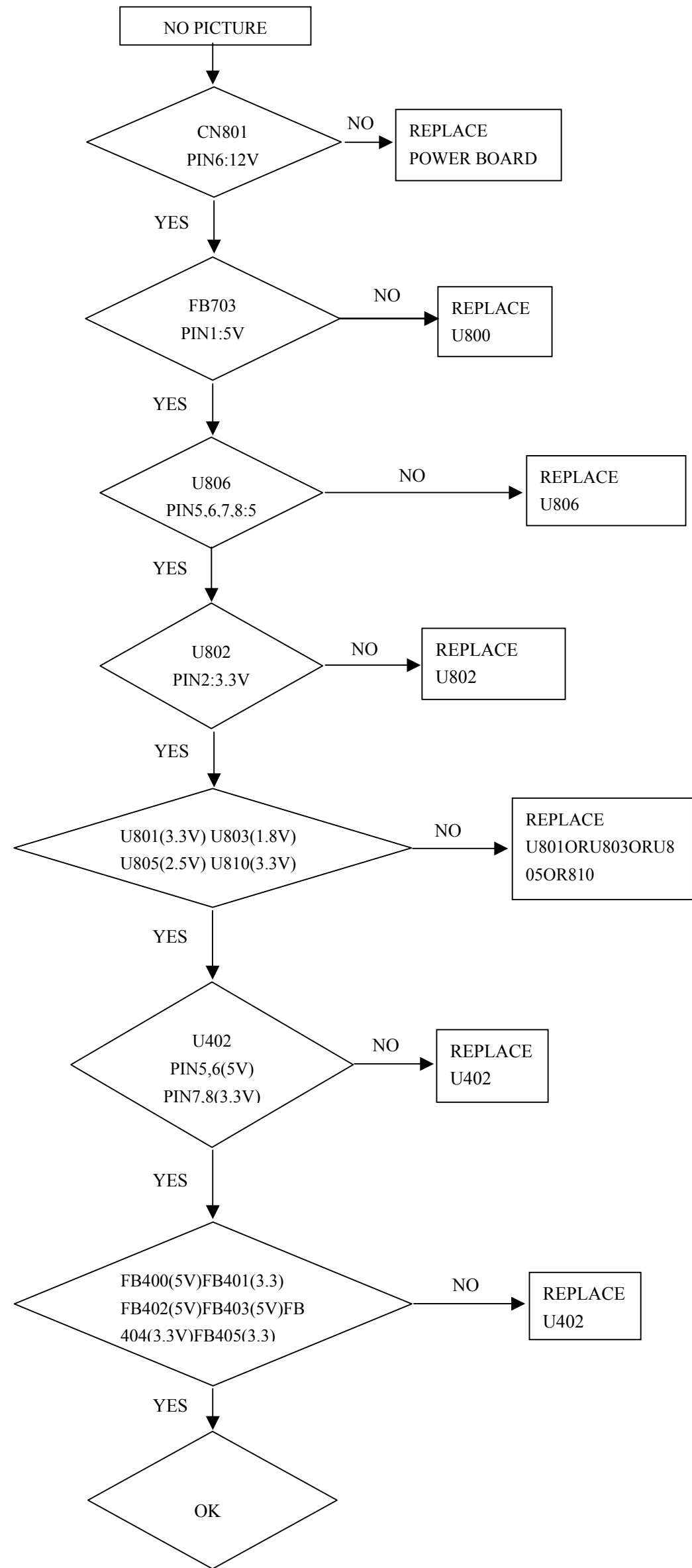
SIGNAL DIAGRAM

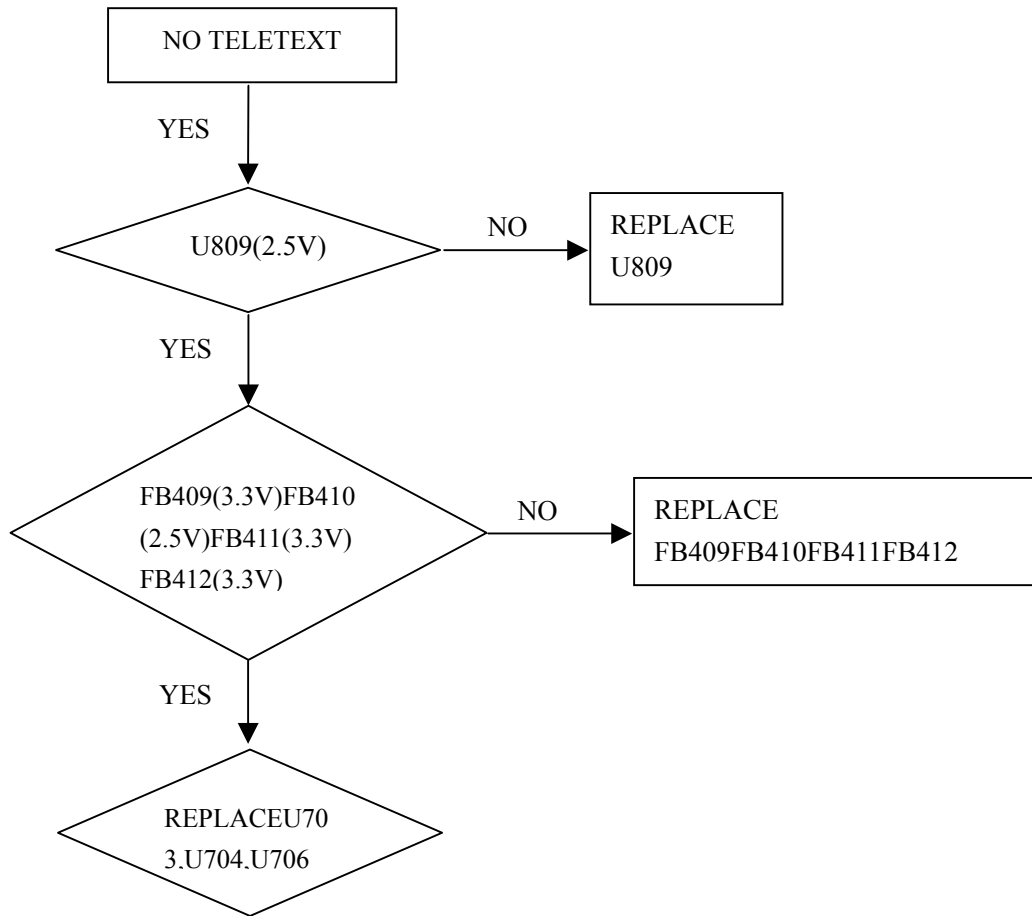


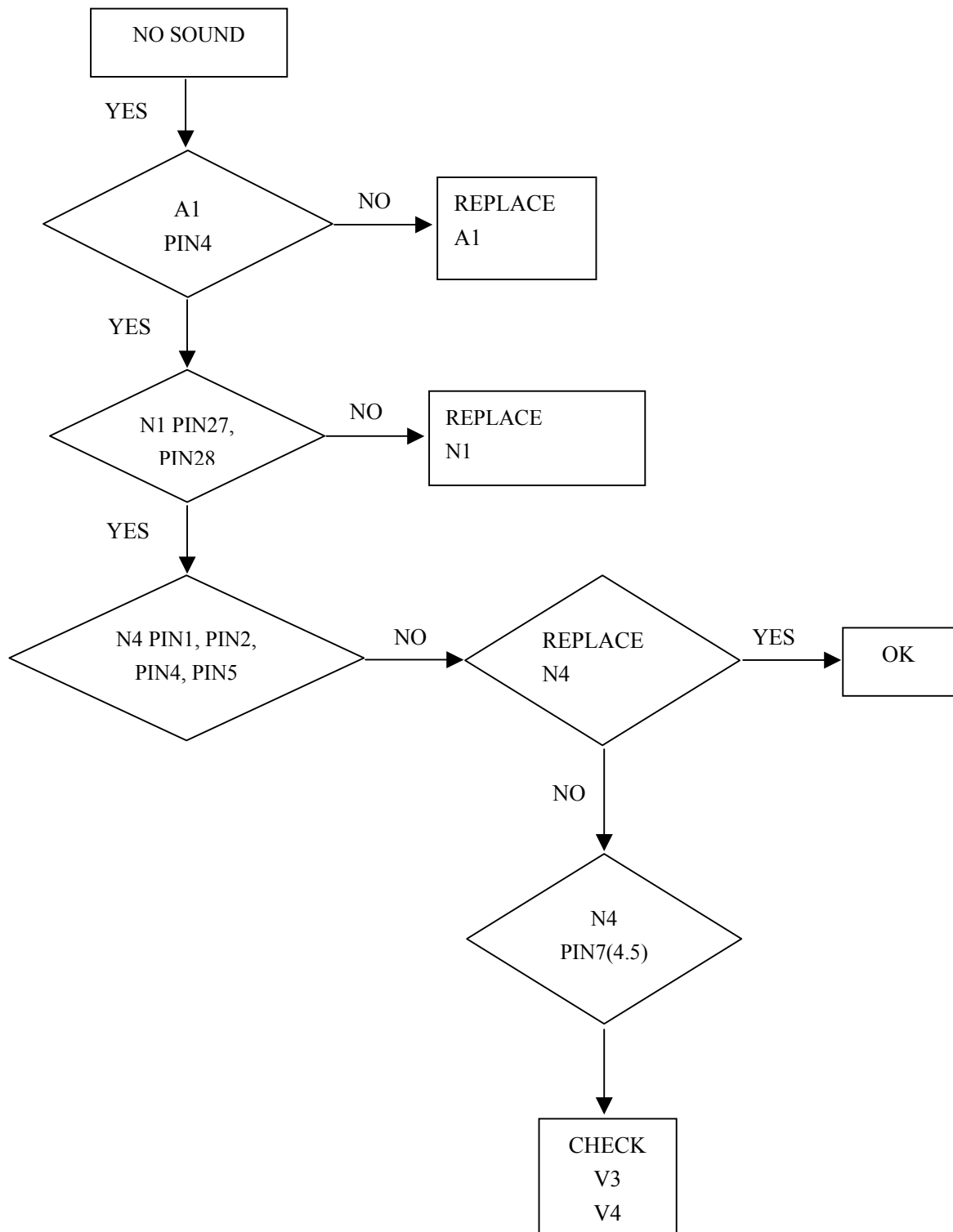
POWER DIAGRAM



TROUBLESHOOTING







WALL-MOUNTING BRACKET INSTALLATION GUIDE

READ CAREFULLY BEFORE INSTALLATION!

THE INSTALLATION GUIDE SHOULD BE RETAINED FOR FUTURE REFERENCE.

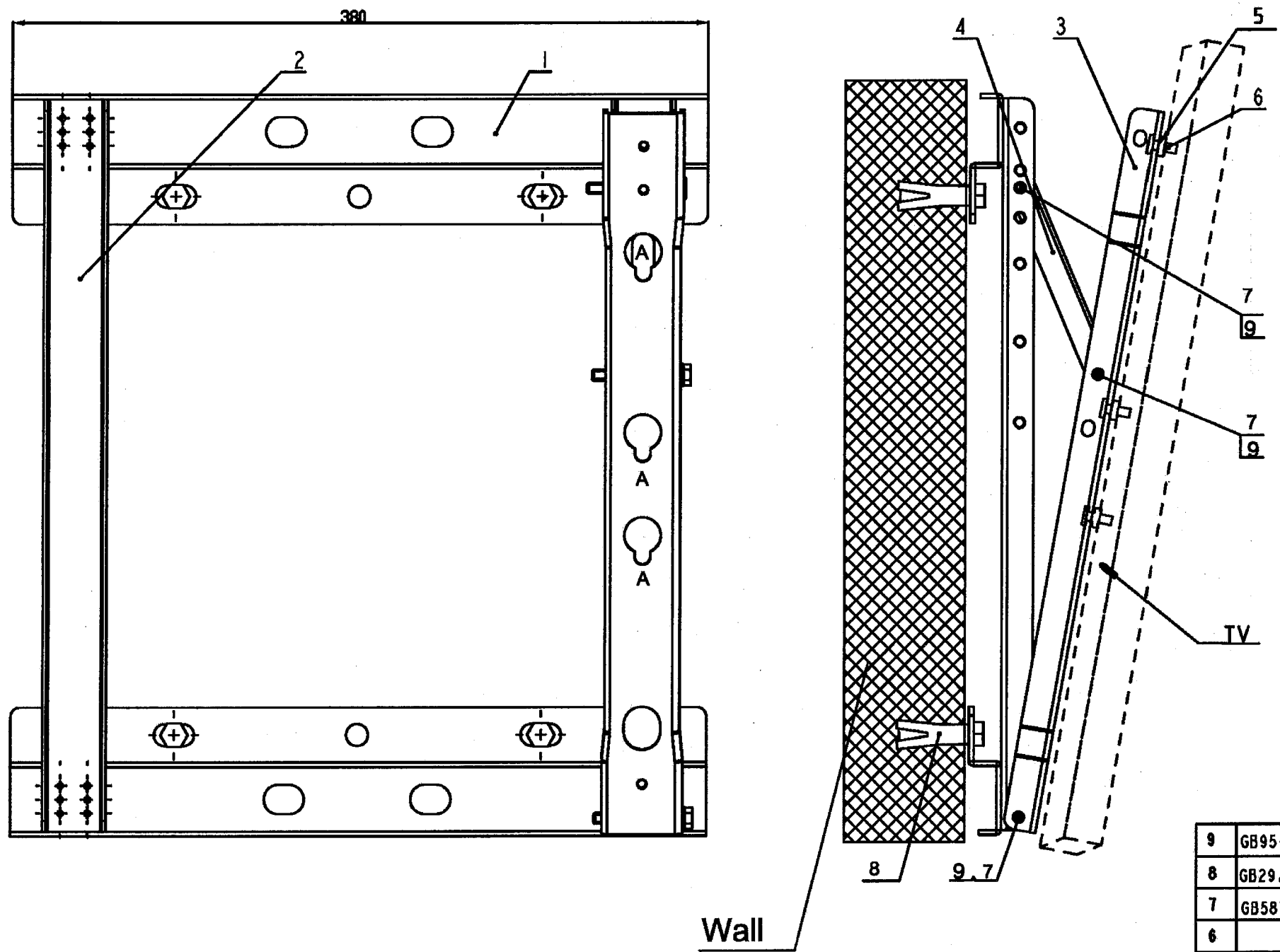
Caution:

1. Do NOT attempt to install the TV by yourself to avoid mistakes or hazard. Refer all installation to qualified servicing personnel.
2. DO NOT install the TV on a wall aslope or a wall that makes the TV screen sloping over 25° off plumb line. Otherwise, it may cause tumble or injury.
3. One must follow the instructions in this guide to correctly install the TV.
4. It requires more than one person to install the TV.
5. Before installation, examine whether the wall conforms to the specifications and whether the supplied parts can be fixed on it. The wall for mounting should sustain the weight of TV and speakers, e.g. cement wall or brick wall. DO NOT attempt to install an area with standard building rigidity, which sustains the weight of the TV and speakers. If the rigidity of the wall can not be measured, every mounting hole should sustain a frontal force over **75N**, and a shearing force of over **150N**.
6. Use the specified electric drill and drill bit for drilling. The drilling holes should conform to the specifications.
7. To avoid fire and shock, do NOT place radiator, heater or humidifier below the installed TV.
8. The TV should be kept away from moisture, sensors and power line. The tv should be kept away from impact and vibration.
9. Ensure that the power supply be disconnected before installation for fear of fire and shock.

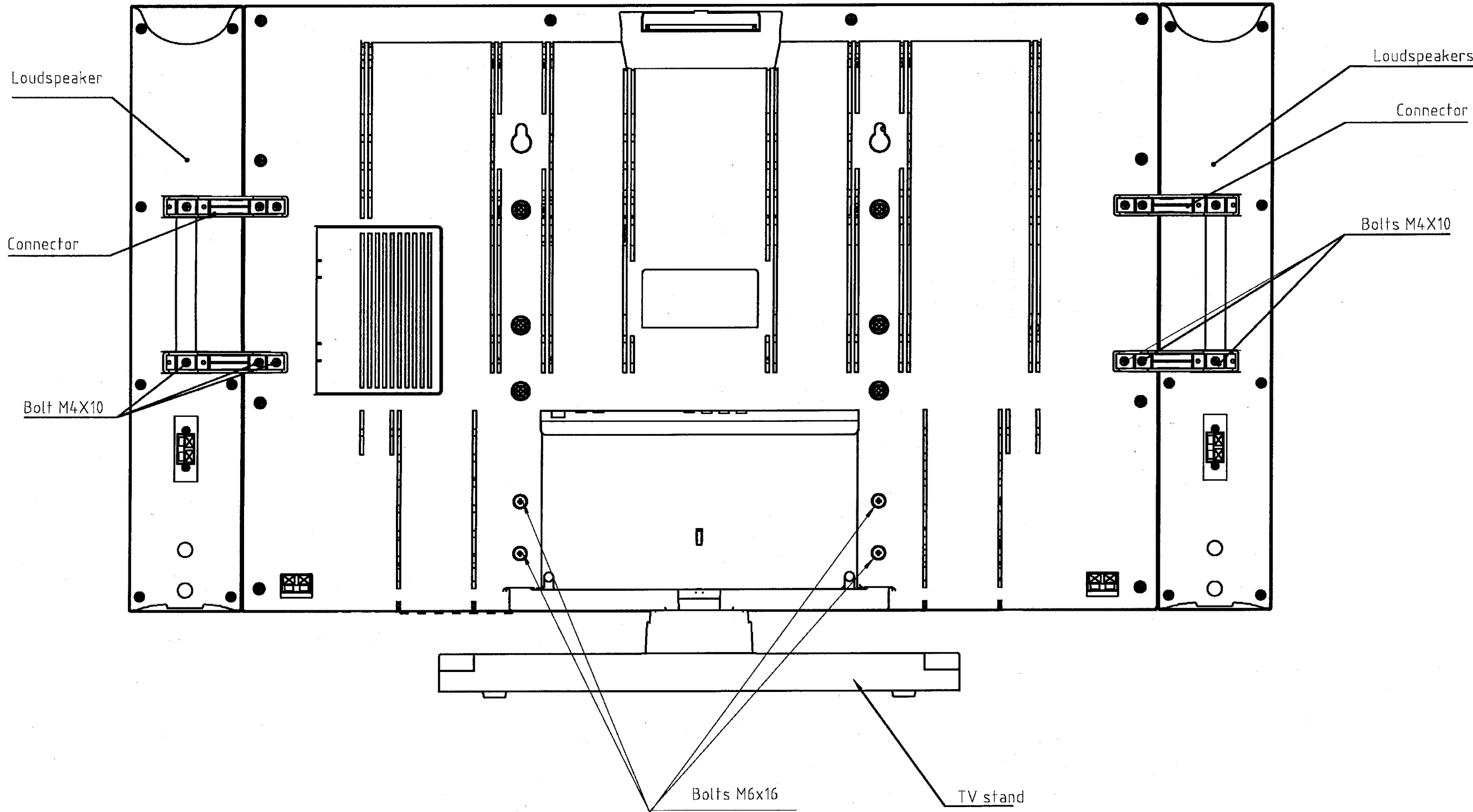
Wall-mounting Installation Steps:

1. Take out the bracket from the package and check if there are serious defects (e.g. infirm juncture).
2. Adjust the bracket to the desired angle. Use bolt 7 to adjust the angle by meeting holes of column beam2 and holes of lever 4.
3. Drill locating holes in the specified dimension in a vertical wall of concrete or brick. The hole size should be 11mm. The hole depth should accommodate the expanding tube of the bolt.
4. Fix the bolts into the drilled holes in step3, and then cover each bolt with a metal washer. Meet the four mounting holes in the bracket with the four bolts in the wall, cover each bolt with a metal washer, then fasten with a screw nut. Check its rigidity by pulling the bracket.
5. Fix the fixture disk to the back cover of the TV using six M4x20 bolts.
6. Wall-mount the TV by putting the six-fixture disk into the six mounting holes A.

Wall-mounting quick guide



9	GB95-85	Plain Washer 6	6	
8	GB29.1-88	Expanding bolt M8X60	4	
7	GB5872-86	Bolt M6X50	6	
6		Bolt M4X20	6	
5	RSAG8,079,019	Fixture disk	2	Nylon
4	RSAG8,038,132	Lever	2	A3
3	RSAG8,038,131	Vertical beam	2	A3
2	RSAG8,038,130	Vertical beam	2	A3
1	RSAG8,038,129	Cross beam	2	A3
No.	Remarks	Name	Quantity	Mat'l



CIRCUIT DIAGRAM

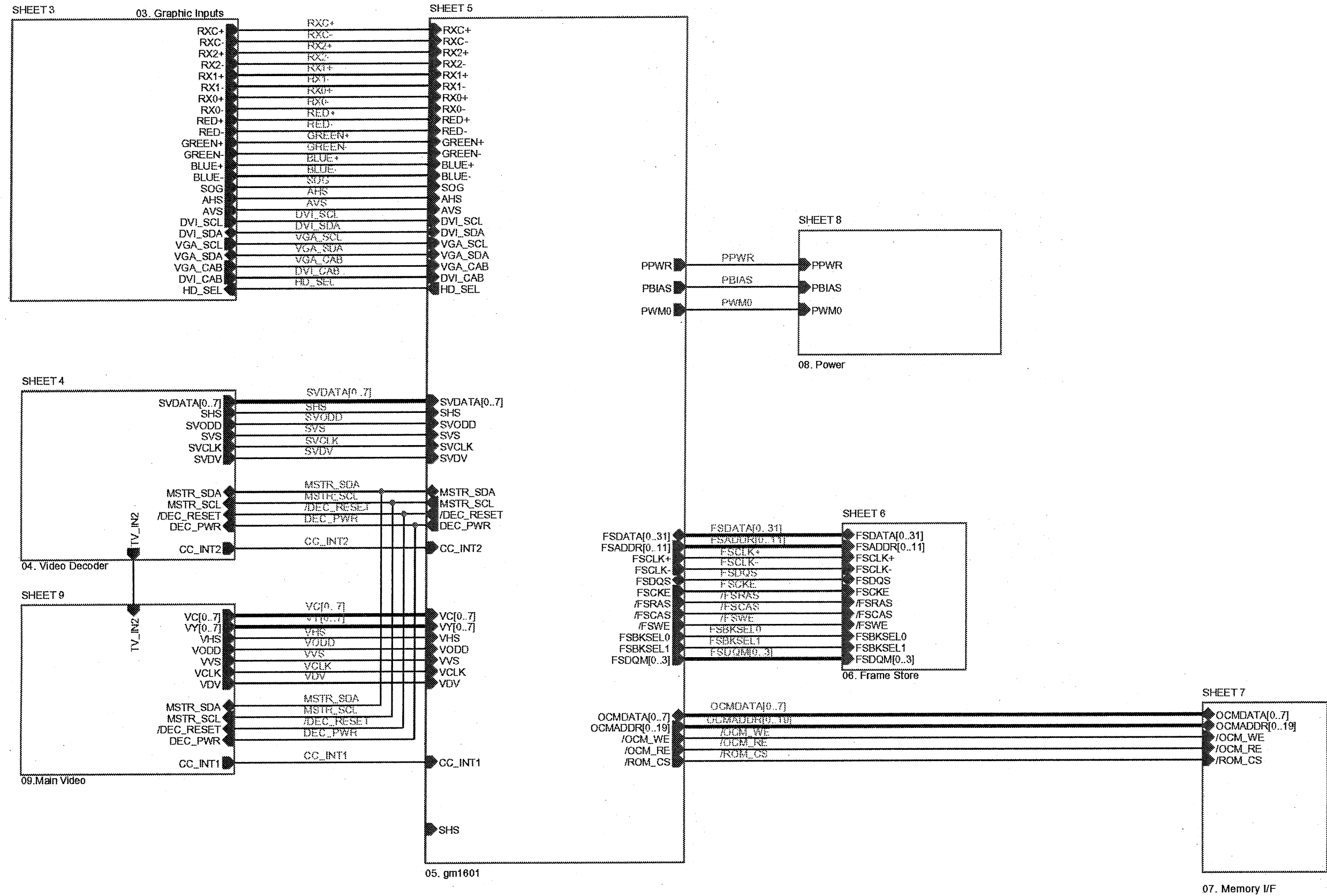
WUXGA/UXGA LCD Controller Board Design 1601 RD1

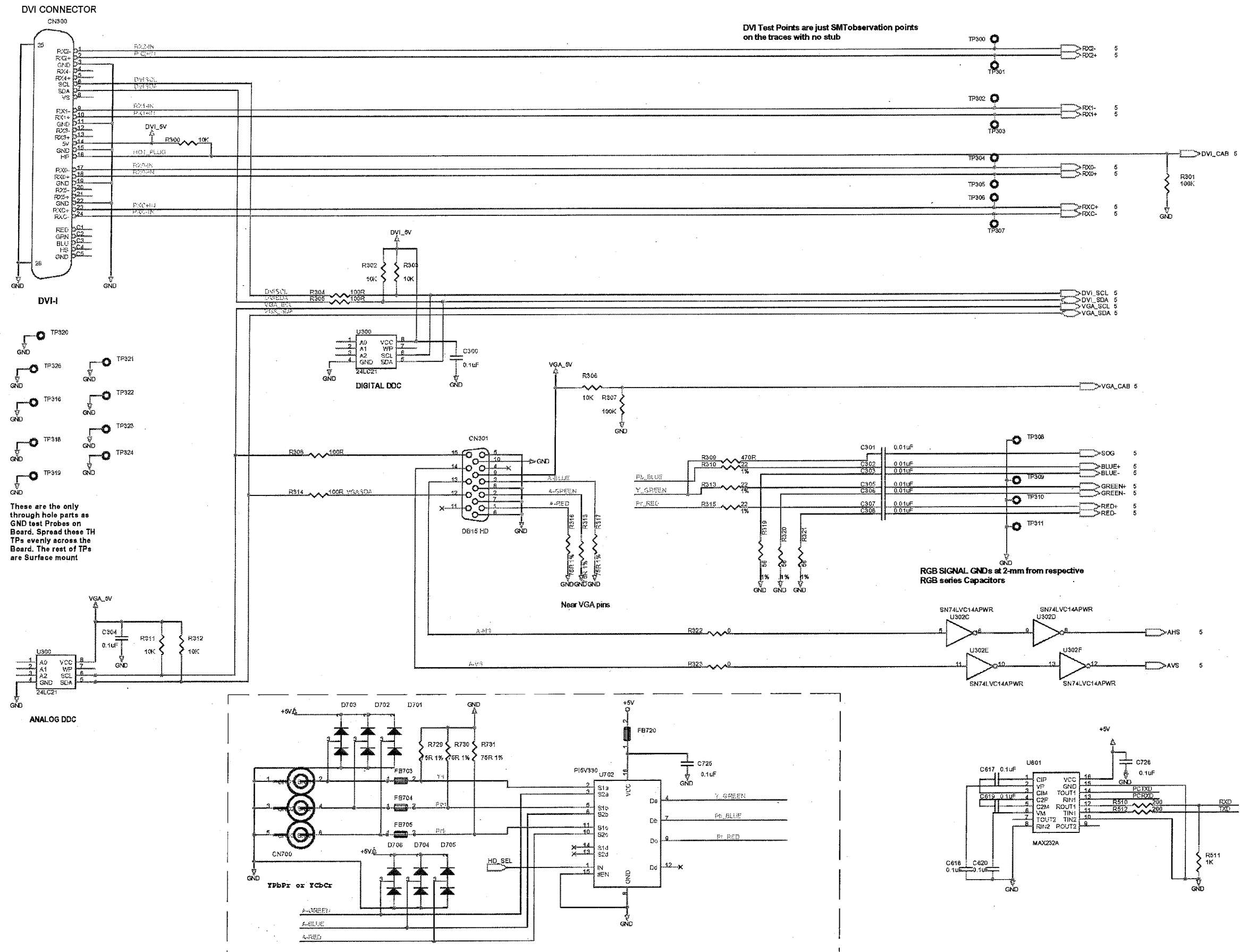
CONTENTS

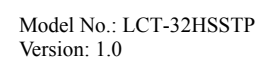
SCHEMATIC Name	SHEET
01. Contents, Revision History	1
02. Top Level	2
03. Graphic Inputs	3
04. Video Decoder	4
05. gm1601	5
06. Frame Store	6
07. Memory I/F	7
8. Power	8

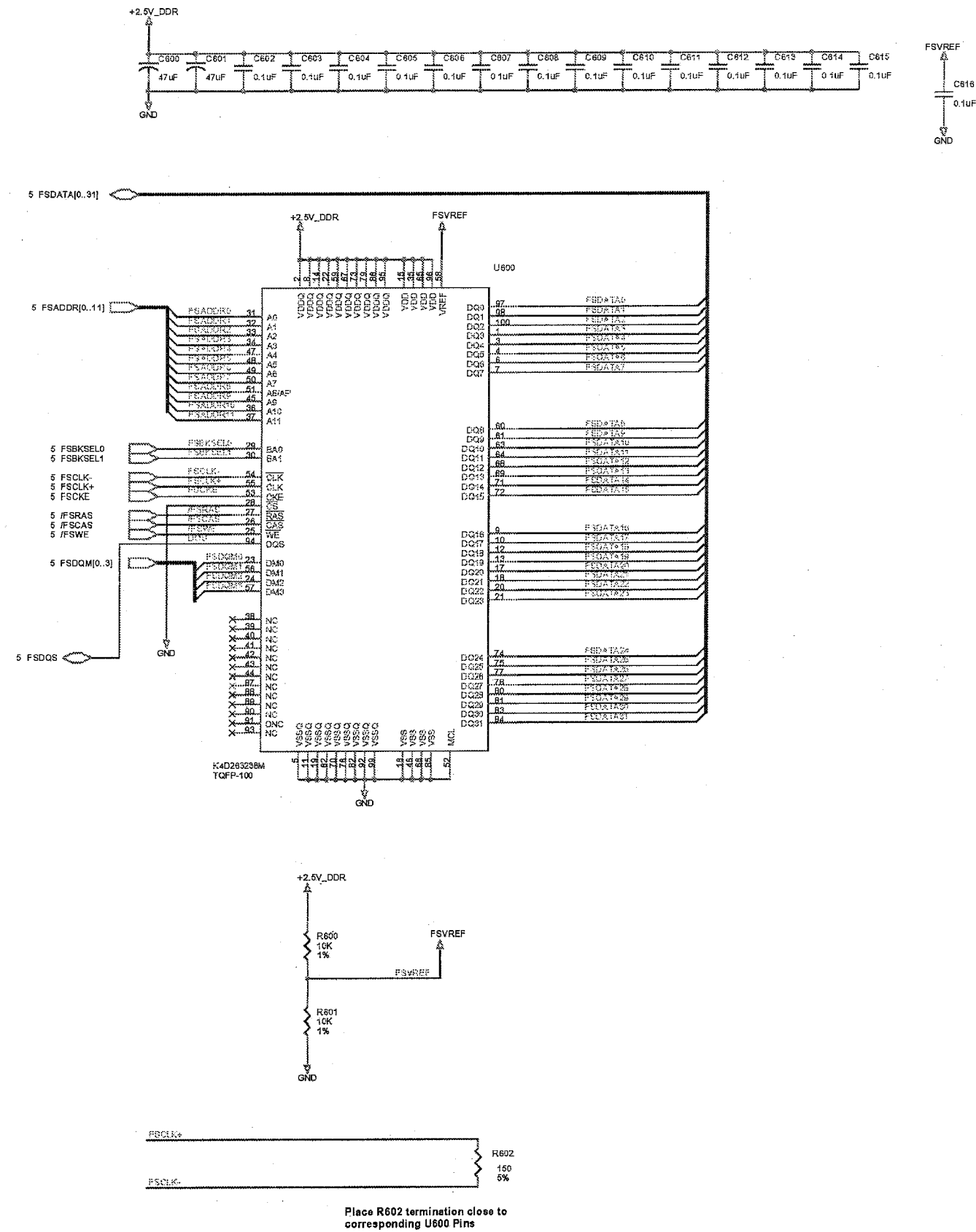
REVISION HISTORY

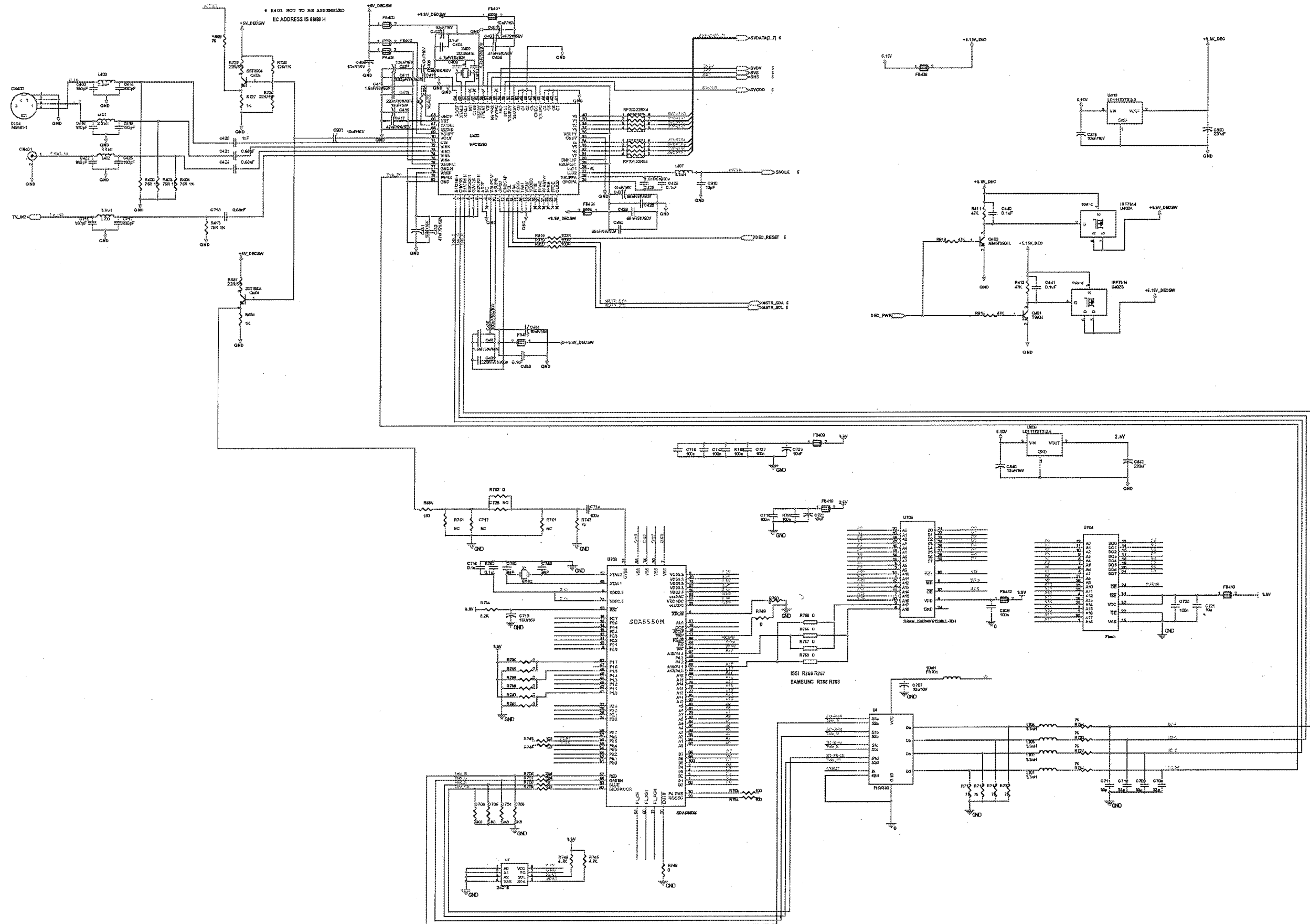
Date	Author	Ver	Comments
OCT 8/ 02	W. Hyder	A	Initial Release
OCT 8/ 02	W. Hyder	B	Misc Cost reduction changes
JAN 20/ 03	W. Hyder	C	Changed a few gm1601 Pin names

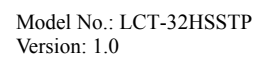


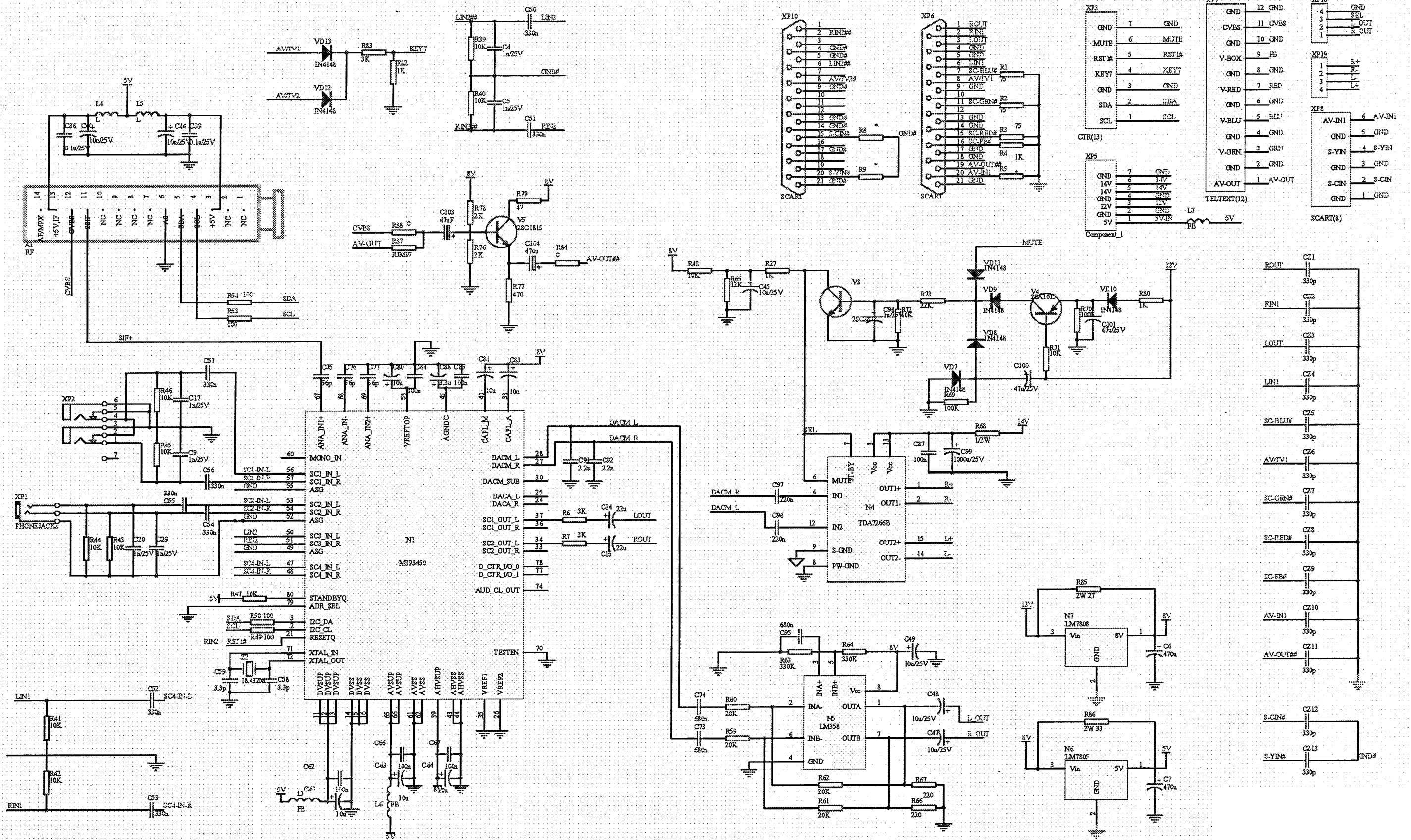












PART LIST

CODE	DESRPTION	
103246	Digital board	RSAG2.908.452
103247	Tuner board	RSAG2.908.451
101814	Front control board	RSAG2.908.337
101808	Switch board	RSAG2.908.313
1011691	LCD panel	LTA320W1-L02
1020374	Remote control	HYDFSR-A026AK
1005288	Inverter connector	SP030623770R1
1004899	Cable to panel	SP030910890
1004693	AC cord	PHP-206+PHS-301
1013110	Speaker	YD83E-10W8R-B
1013122	Speaker	YDG50-10W8R-A
1020322	Uesr's manual	IES040937
101227	Back cover	WTG6.170.071
1020333	Front encloser	RSAG8.074.096\W9+B2\SYN135
1020311	Rating label	E/RSR8.807.1377
1020323	Carton box	E/RSR8.865.1511
1019700	Signal cord	SCART-S-2.0

