

20"LCD TV SERVICE MANUAL

LTA-20A301

VERSION:

DESIGNED BY:

CHECKED BY:

APPROVED BY:

CONTENTS

SPECIFICATION-----	3-5
REMOTE CONTROLLER-----	6
EXPLODED VIEW DIAGRAM-----	7-10
BOLCK DIAGRAM-----	11
MAIN BOARD CIRCUIT-----	12-21
TUNER CIRCUIT-----	22
INVERTER CIRCUIT-----	23
ADAPTER CIRCUIT-----	24
COMPONENT DIAGRAM-----	25-32
BILL OF MATERIAL-----	33-60

KXD 20"LCD TV SPECIFICATION

FEATURES

- POWER SUPPLY:DC 12V/5A(ADAPTER)
ADAPTER POWER SUPPLY:AC 100~240V 50/60Hz
- MULTI TV SYSTEM:PAL BG/DK/I and SECAM BG/DK/LL'
- MULTI VIDEO SYSTEM:PAL/NTSC/SECAM
- VERSATILE INPUT SOURCES:TV,VIDEO,S-VIDEO,SCART/YCbCr, PC(ANALOG)
- FULL FUNCTION REMOTE CONTROLLER
- EXCELLENT SOUND EFFECT WITH VOLUME,TRABLE,BASS, BALANCE, ADJUSTABLE
- SMART SOUND & PICTURE MODE SET:
STANDARD,SPEECH,MUSIC;STANDARD,SOFT,RICH
- ADAPTIVE 2/4 LINE COMB FILTER FOR PAL/NTSC
- VTR FOR WEAK AND DISTORETED SIGNAL FROM VIDEO TAPE RECORDER
- 10 PAGES TELETEXT(OPTION)
- AUTOMATICALLY TURN OFF THE SET WHEN SIGNAL ABSENT LONGER THAN 10 MINUTES
- 256 CHANNELS
- BLUE SCREEN DISPLAY

GENERAL SPECIFICATION:

PART1:TV SET

POWER CONSUMPTION	67Watt (MAX.)
	≤3Watt(STBY)
TV RECEIVE SYSTEM	PAL D/K I B/G SECAM BG/DK/LL'
VIDEO SYSTEM	MULTI PAL/ SECAM/ NTSC
VISION INTERMEDIATE FREQUENCY	38.9MHz,33.95MHz(L')
INTER-CARRIER FREQUENCY	5.5 MHz (B/G)
	6.0 MHz (I)
	6.5 MHz (D/K,LL')
CHROMA IF FREQUENCY	BG/DK/L: 34.47MHz
	L': 38.38 MHz
CHANNELS RECEIVED	VHF-L 46.25-163.25MHz
	VHF-H 158.25-466.25MHz
	UHF 471.25-855.25MHz
TUNING MODE	PLL SYSTEM
AV IN/OUT	1 AV IN,1 S-VIDEO IN
	21PIN SCART IN

AV IN/OUT SPECIFICATION	Y/C IN -Y: $1.0 \pm 0.2 V_{P-P}$ 75Ω C: $0.7 V_{P-P}$ 75Ω
	VIDEO IN---- $1.0 \pm 0.2 V_{P-P}$ 75Ω
	AUDIO IN----Approx,500mV
	VIDEO OUT---- $1.0 \pm 0.2 V_{P-P}$ 75Ω
	AUDIO OUT----Approx,400mV
	RGB IN ----- $0.7 V_{P-P}$
PC INPUT	$0.7 V_{P-P}$ (analog RGB signal)
	2.4-5V(HSYNC&VSYNC)
ANTENNA INPUT IMPEDANCE	75Ω OHM
OSD LANGUAGE	ENGLISH/SPANISH/ITALIAN
	RUSSIAN/GERMAN/FRENCH
AUDIO OUTPUT POWER	> 3W (1KHz, 0.5Vrms, 10%THD)
LED INDICATORS	GREEN POWER ON
	RED POWER OFF
	ORANGE SLEEP(PC)
HAND SET POWER SUPPLY	BATTERY 1.5V (AAA) x2

PART2:PANEL

Brand & Model	AU / A201SN01
Resolution	800*600
Displayable Colour	16.7MHz
Surface	Hard Coating + Anti-Radiation
Viewing Angle (H/V)	160° (Hor) / 120° (Ver)
Display Response Time	16ms
Contrast Ratio	1:500
Brightness	450nit
Aspect	4:3
Lamp Life	50,000Hrs
Bad Pixel Quality (Bright/Dark/Total)	2 / 3 /5

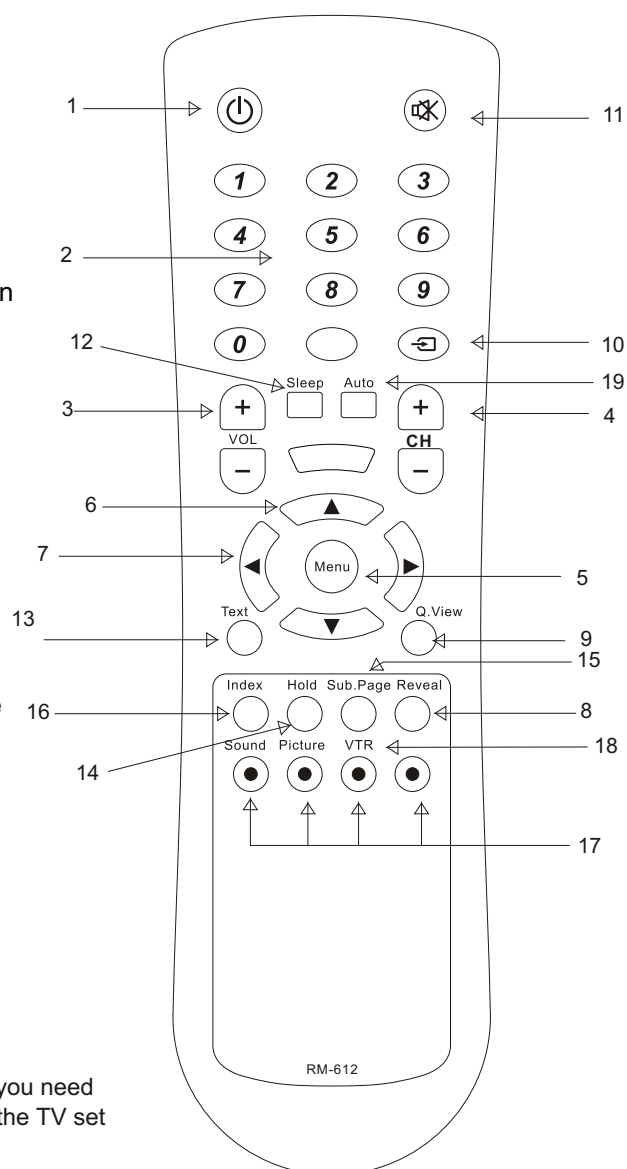
PART3:PC INPUT RESOLUTION

Recommended resolution is 800*600@60Hz

	RESOLUTION	V.Freq(Hz)	H.Freq(KHz)	Band Width(MHz)	Polarity H/V
1	720*400	70	31.47	28.322	-/+
2	640*350	70	31.469	25.175	+/-
3	640*480	60	31.47	25.175	-/-
4	640*480	72	37.86	31.5	-/-
5	640*480	75	37.50	31.5	-/-
6	800*600	56	35.156	36	+/+
7	800*600	60	37.88	40	+/+
8	800*600	75	46.88	49.5	+/+
9	800*600	72	48.08	50	+/+

DESCRIPTION OF

1. **POWER**: turn on or off the TV
2. **NUMBER KEYS**
3. **VOL+/-** : adjust volume
4. **CH+/-** : change program forward/backward
5. **MENU**: access main menu
6. **BOTONES ▲/▼**: move cursor in main menu
7. **BOTONES ◀/▶**: adjust item you selected
8. **REVEAL**: recall program number, system etc on the screen
9. **Q VIEW**: return to the last viewed program
10. **SOURCE**: select external video source
11. **MUTE**: mute sound
12. **SLEEP**: set time to turn off the TV
13. **TEXT**: display/mix/close teletext signal
14. **HOLD**: hold/release sub-page
15. **SUB PAGE**: view sub-page
16. **INDEX**: view index page directly.
17. **4 COLOR BUTTONS**:
access the corresponding page indicated in the line of teletext page
18. **VTR**: rectify distortion signal from VTR(videotape recorder).
19. **AUTO**: auto adjust the position and size of the picture in PC mode



DIRECT PROGRAM SELECTION (0-9 BUTTONS)

1. To select one-digit channel:

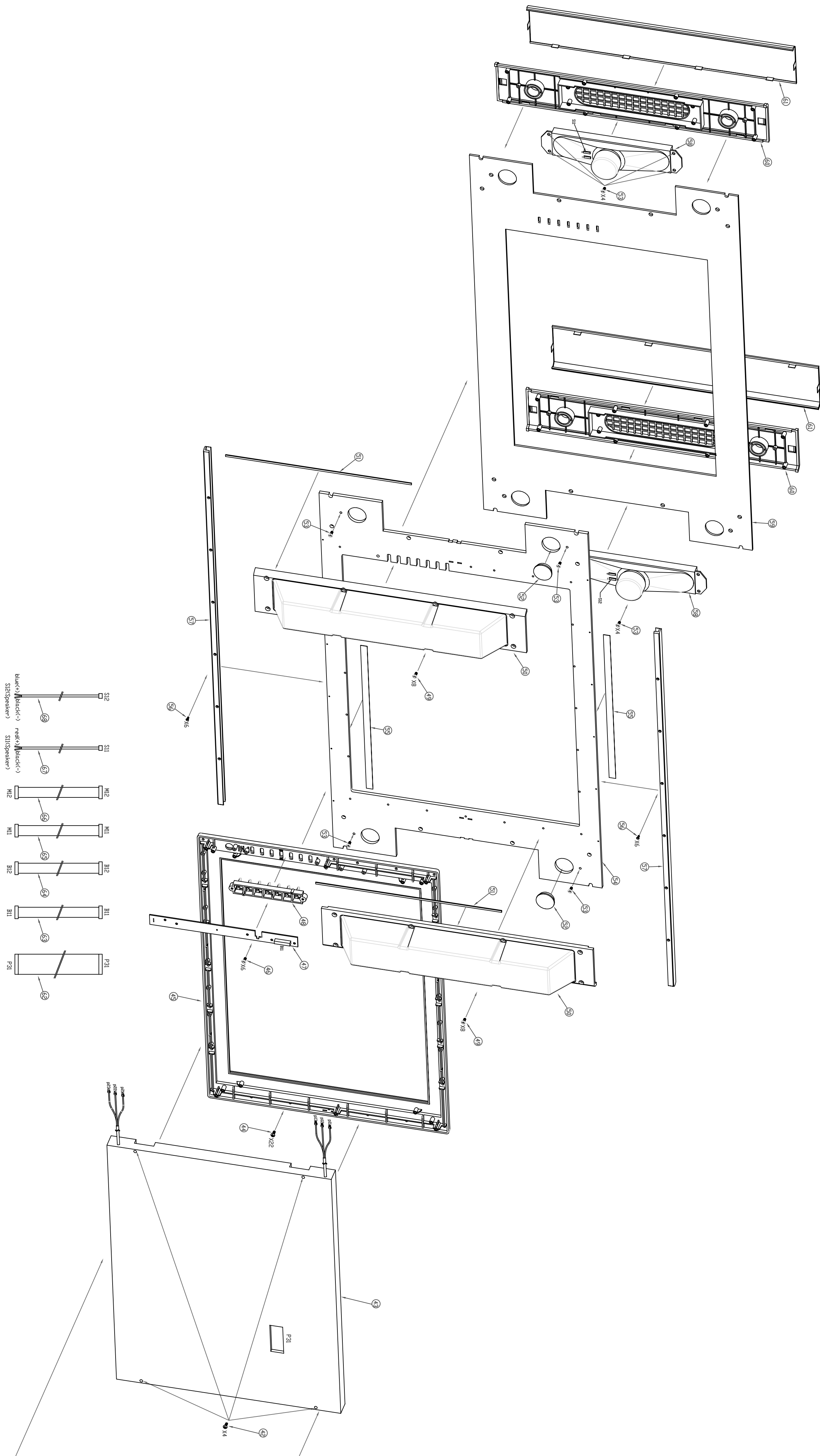
Press 0-9 digit buttons and wait for 2 seconds. For example, you need channel 5, please input "5" button and the screen displays "5", the TV set goes to channel 5 in 3 seconds.

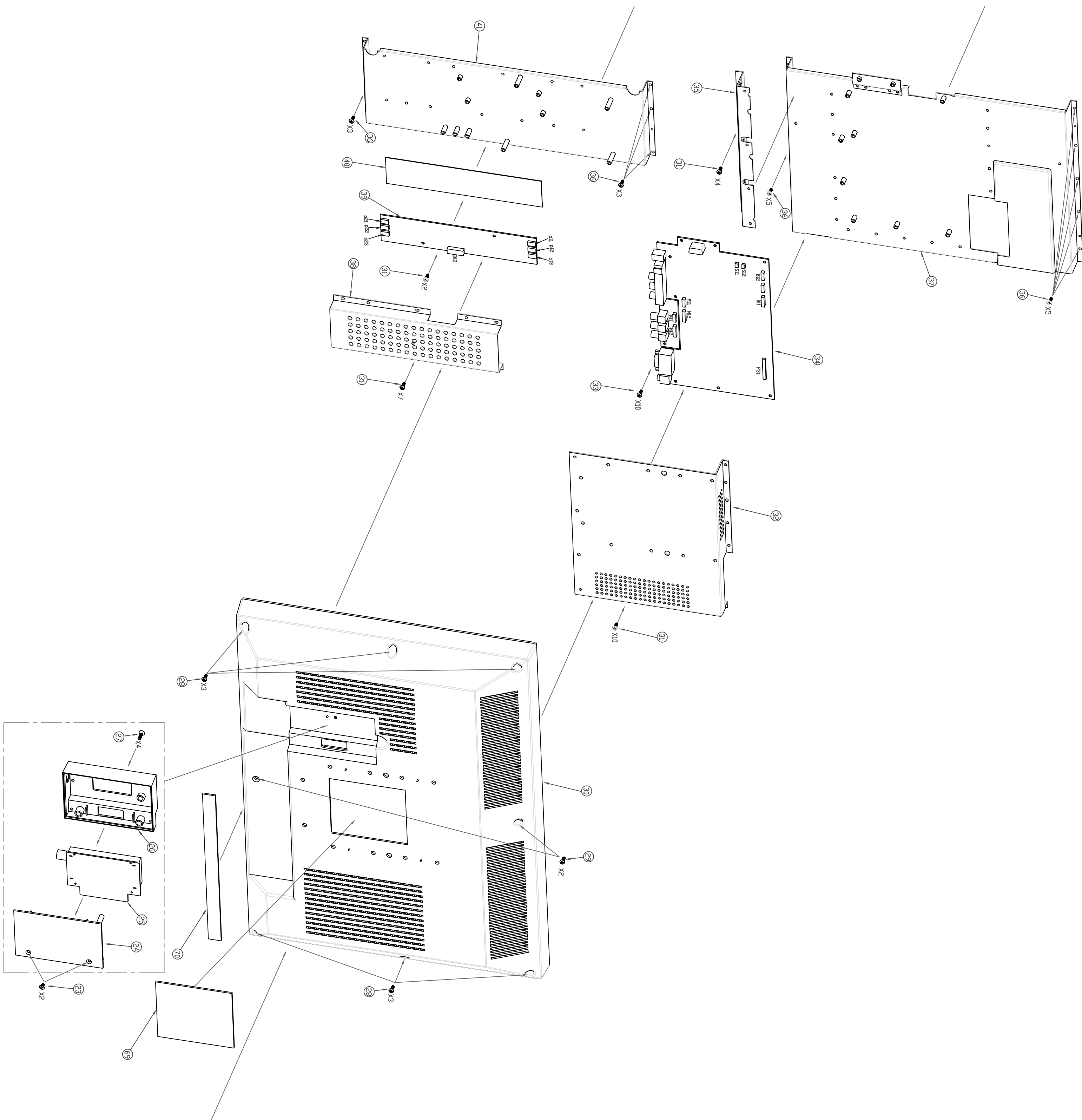
2. To select two-digit channel:

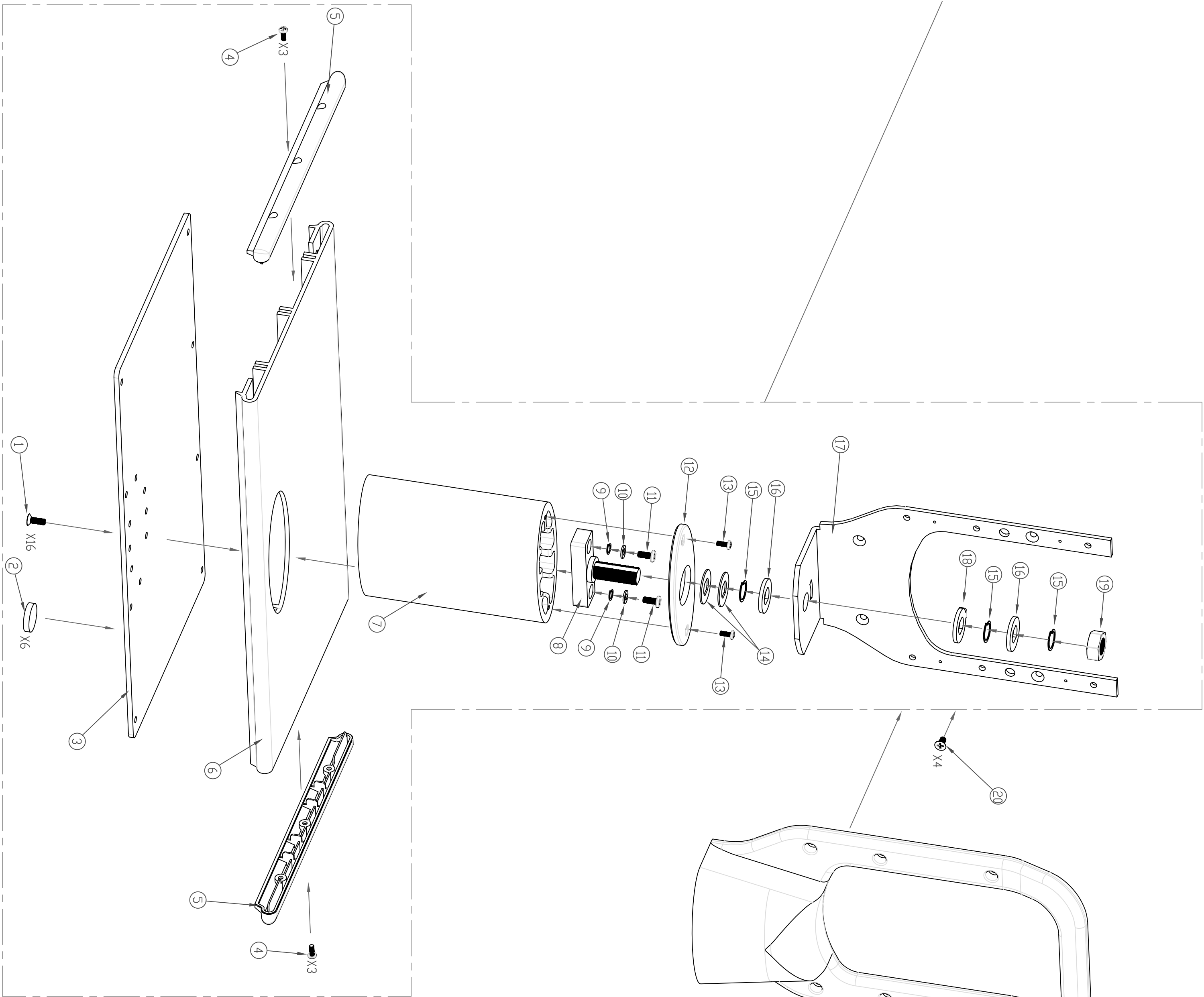
Press two digit buttons in order to input the channel number. For example, you need channel 10, please input "1" button, followed "0" button and the set goes to channel 10. Be sure that the second press should be within 2 seconds.

3. To select three-digit channel:

Press three digit buttons in order to input the channel number. For example, you need channel 110, please input "1" Button firstly, followed "1" button secondly and followed 0 button thirdly then the set goes to channel 110. Be sure that the second press should be within 2 seconds.

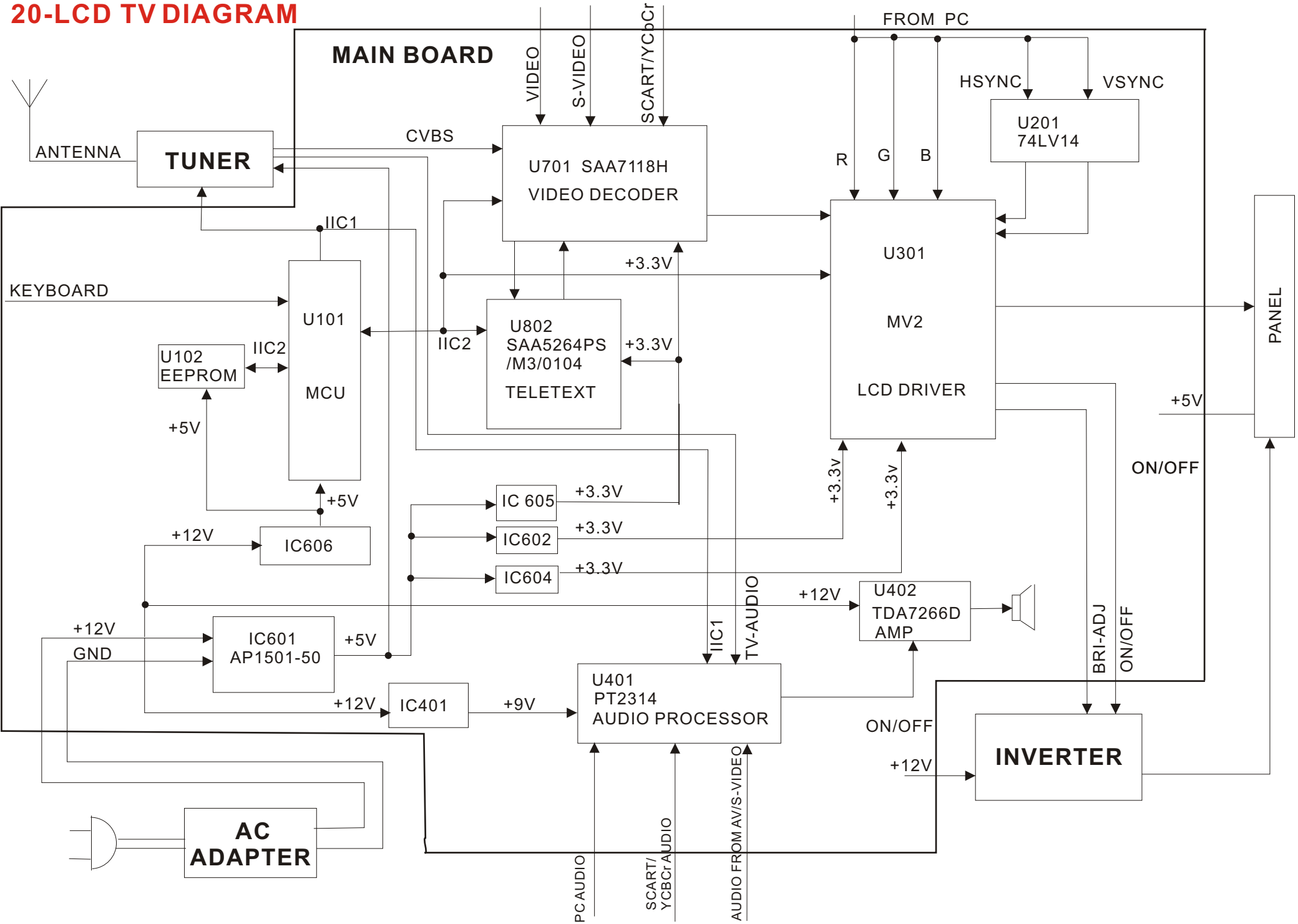


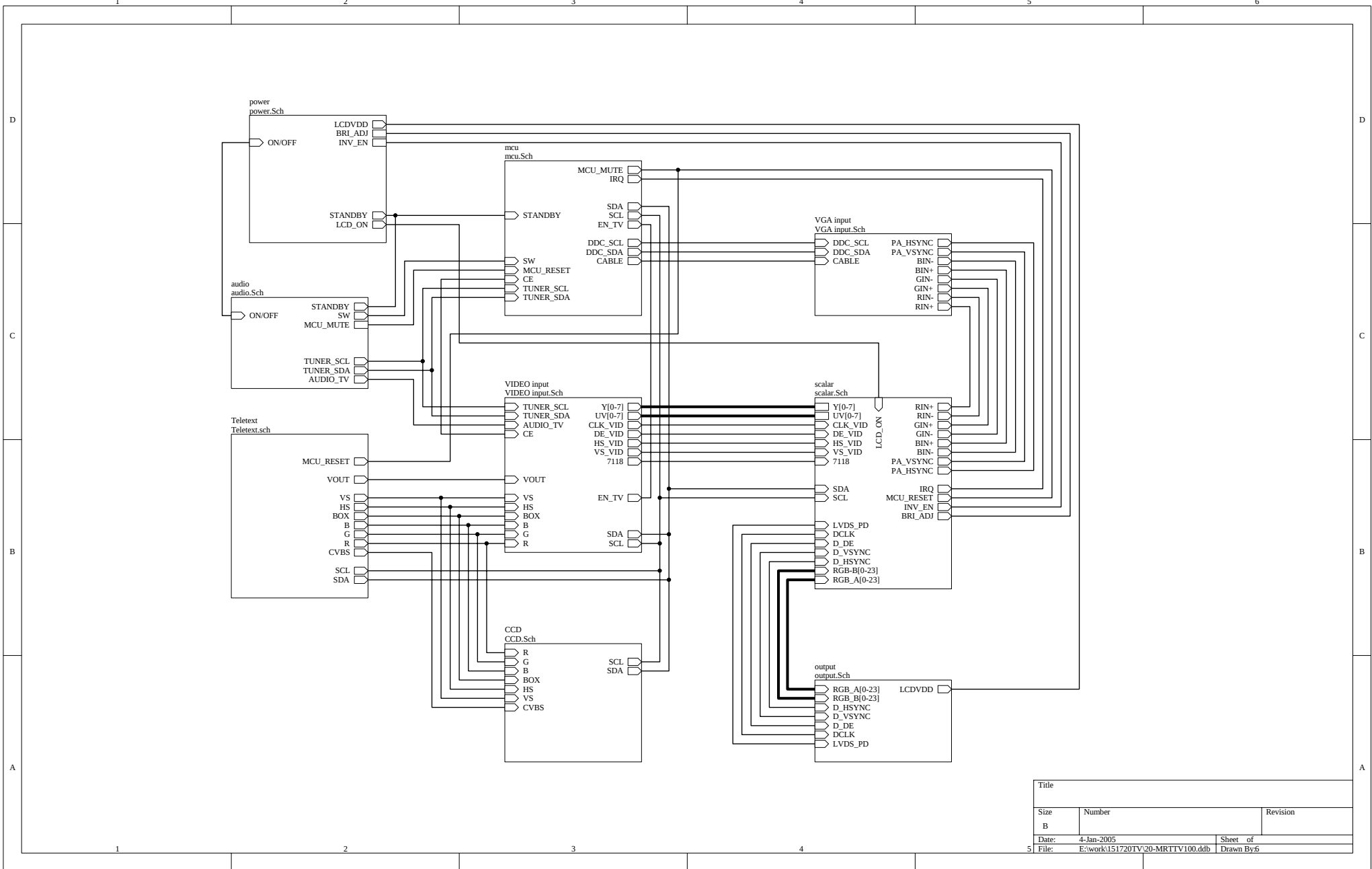




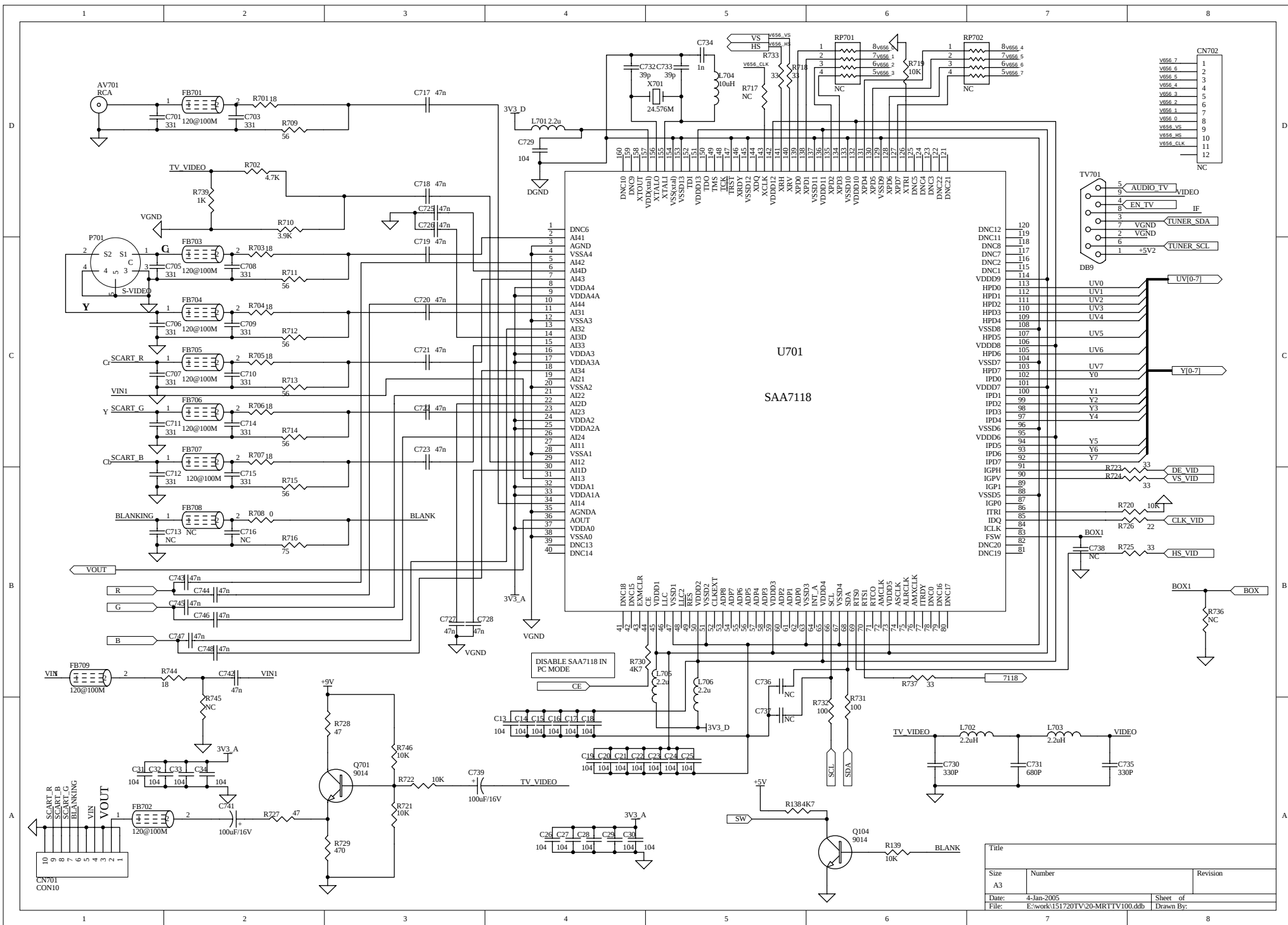
40	606T200100000	POWER PCB MYLAR (205*53*0.25mm)	1						
39		POWER PCB	1						
38	304T200100010	POWER PCB SHIELDED METAL	1						
37	305T200100040	2001 MAIN PCB SUPPORT	1						
36	6020BAZ030080	SCREW BA3*8, C	16						
35	305T20010001B	PORT METAL	1						
34		MAIN PCB	1						
33	6020BMZ030061	SCREW BM3*6, C	10						
32	305T200100030	MAIN PCB SHIELDED METAL	1						
31	6020BMZ030050	SCREW BM3*5, C	23						
30	104T200100010	REAR COVER	1		70	501T20010001B	PORT LABEL	1	
29	6020BMB030061	SCREW BM3*6, B	2		69	501T200100070	REAR COVER LABEL	1	
28	6020BAB030120	SCREW BA3*12, B	6		68	437T200100A20	SPEAKER WIRE BLUE/BLACK , LEFT	1	
27	6020KAB030080	SCREW KA3L8, B	4		67	437T200100A30	SPEAKER WIRE RED/BLACK , RIGHT	1	
26	102T150100A10	TUNER BOTTOM COVER	1		66	437T150100020	CABLE(10P-11P, 2.0) (2468 26#)	1	
25		TUNER PCB ASSEMBLY	1		65	437T150100050	CABLE (6P, 2.0) (2468AWG 26#)	1	
24	103T150100A20	TUNER TOP COVER	1		64	437T200100050	CABLE (FPC)	1	
23	6020KTB030100	SCREW KT3*10, B	2		63	437T200100070	CABLE(6P, 2.0) (2547AWG24#)	1	
22	6020BMB040140	SCREW BM4*14, W	6		62	437T200100010	CABLE (11P, 2.0) (2547AWG28#)	1	
21	114T170100010	1701 HANDLE	1		61	305T2001B0020	SPEAKER NET	1	
20	6020KMZ040120	SCRWW KM4*12, C	4		60	101T2001B0020	SPEAKER FRONT COVER	1	
19	601T170100010	1701 NUT M12)	1		59	110T2001B0040	2001B PMMA T=3MM		
18	606T170100010	1701 WASHER (1)	1	T=2.5mm,	58	4400000801530	SPEAKER	2	
17	305T170100010	1701SUPPORT METAL	1		57	306T2001B0010	2001B DECORATIVE AL	2	
16	606T170100020	1701 WASHER (2)	2	T=2.5mm	56	6020KTW020060	SCREW OT2*6, W	12	
15	606T170100040	1701 SPRING WASHER φ12.2 (HRC50)	3		55	90203M1330810	TAPE/3M GLUE 10 (W) *200 (L)	2	
14	606T170100030	1701 WASHEER (3)	2	T=1mm	54	110T2001B0020	2001B PMMA T=5MM	1	
13	6020BMB030080	SCREW BM3*8, W	2		53	6020BAZ030100	SCREW BA3*10, C	12	
12	103T170100010	1701 DECORATIVE COVER	1		52	103T300100010	SPEAKER COVER	2	
11	6020BMB040140	SCREW BM4*10, B	2		51	6070010401382	2001A EVA4 (W) *1 (H) *412mm	2	
10	606T170100070	1701 WASHER φ4.3	2		50	101T2001B0030	SPEAKER REAR COVER	2	
9	606T170100050	1701 SPRING WASHER φ6.3/5.3	2		49	6020BAW030100	SCREW BA3*10, W	16	
8	305T170100060	1701 CIRCUMGRATE ROD	1		48	107T170100020	BUTTON	1	
7	606T200100070	BASE AL SUPPORT ø1 (R50*R25)*128.5	1		47		BUTTON PCB	1	
6	305T200100160	BASE ALUMINOUS	1		46	6020BAZ030100	SCREW BA3*10, C	5	
5	107T170100010	1701 SUPPORT	2		45	101T200100010	FRONT COVER	1	
4	6020PTW030121	SCREW, PT3*12, (WHITE)	6		44	6020BTZ030070	SCREW BT3*7, C	22	
3	305T200100140	BASE METAL	1		43	419A201SN0110	PANEL	1	
2	503T300100030	3001 RUBBER φ20*4	6		42	602PWBZ030150	SCREW BT3*15, C	4	
1	6020KMB040080	SCREW, KM4*8, B	16		41	305T200100050	POWER METAL	1	
ITEM	P/N	DESCRIPTION	QTY	REMARK	ITEM	P/N	DESCRIPTION	QTY	REMARK

20-LCD TV DIAGRAM

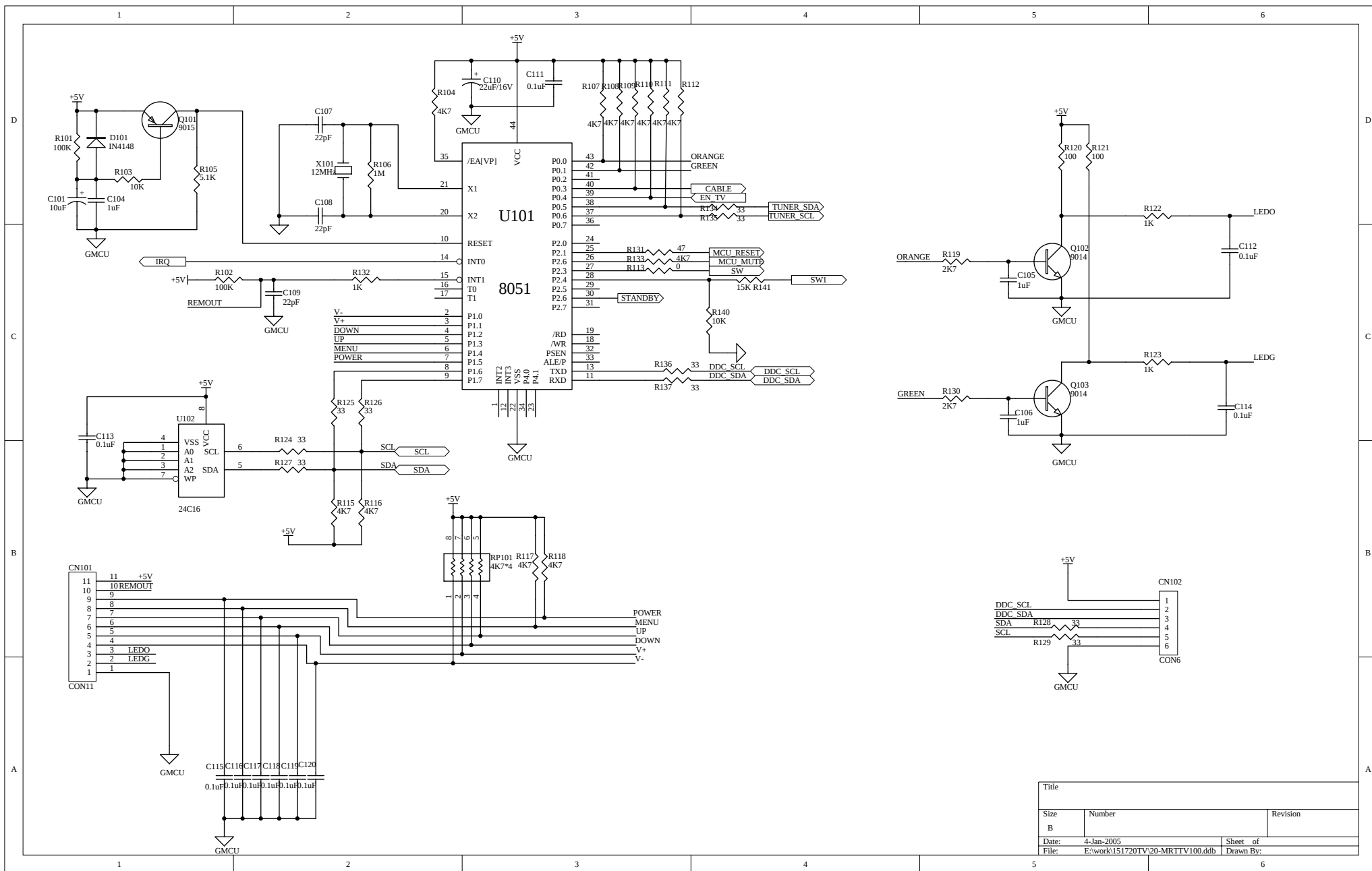


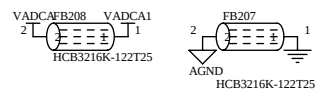
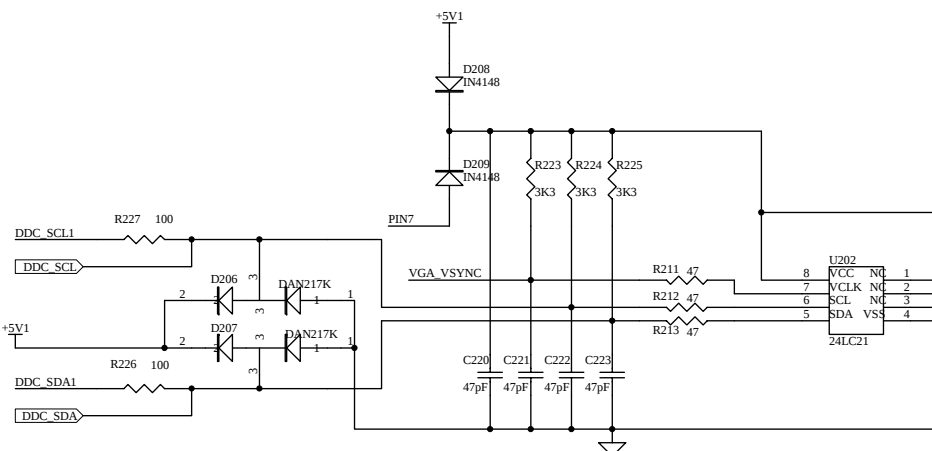
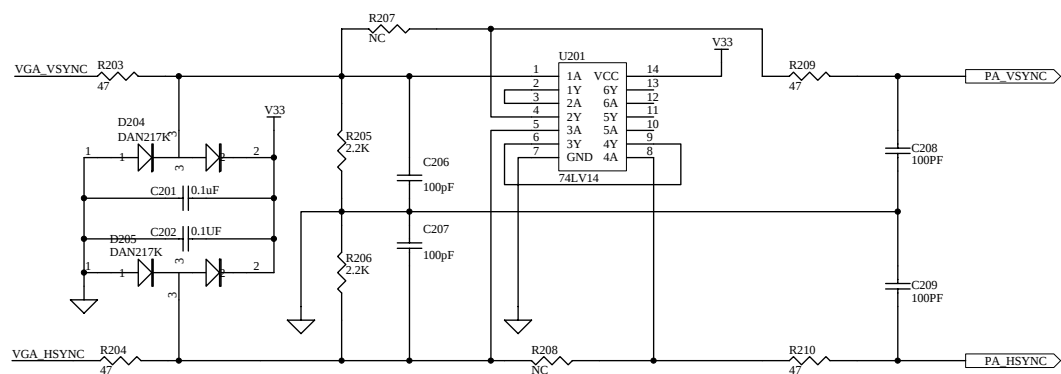


Title		
Size	Number	Revision
B		
Date:	4-Jan-2005	Sheet of
File:	E:\work\151720TV\20-MRTTV100.ddb	Drawn By:6

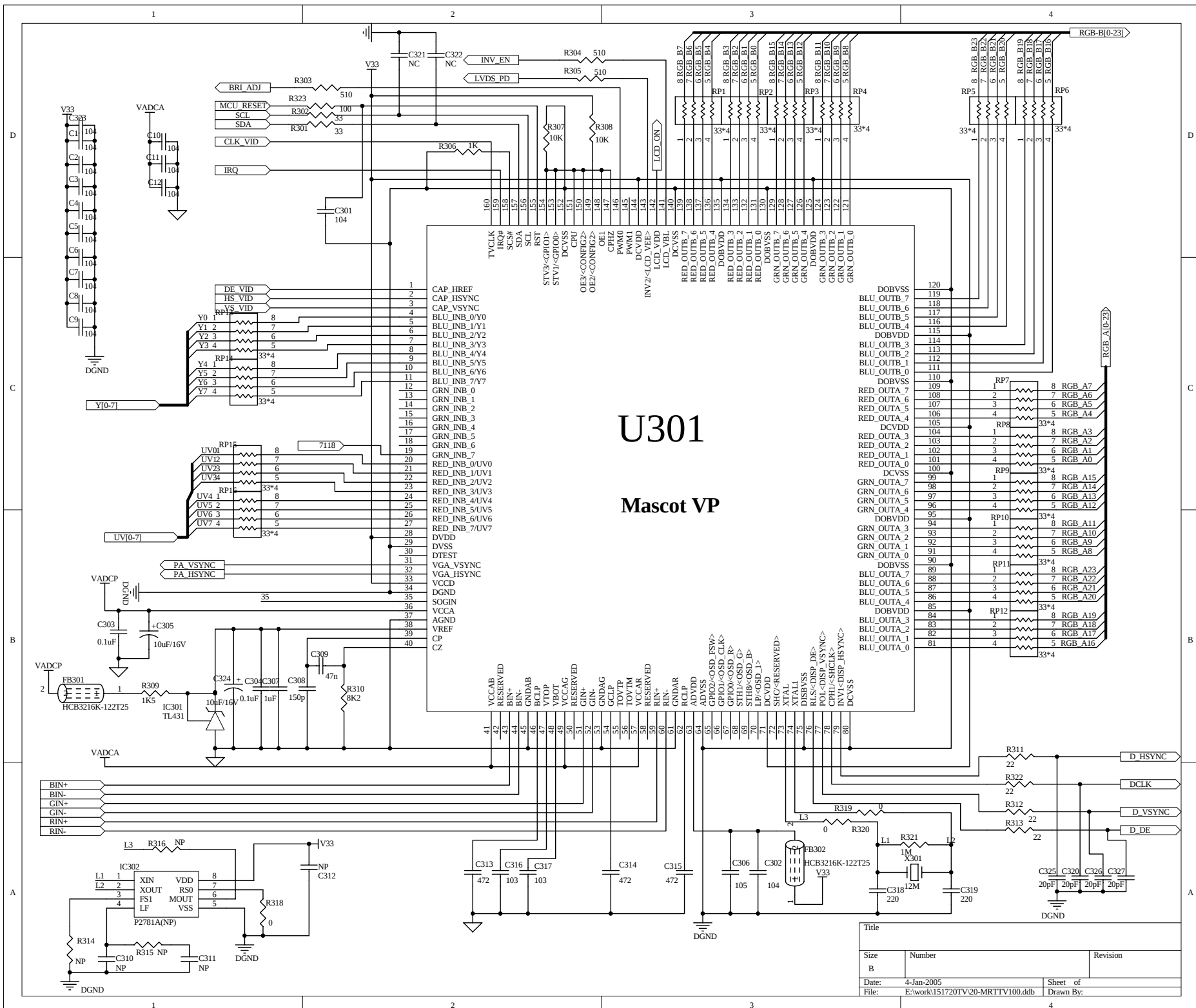


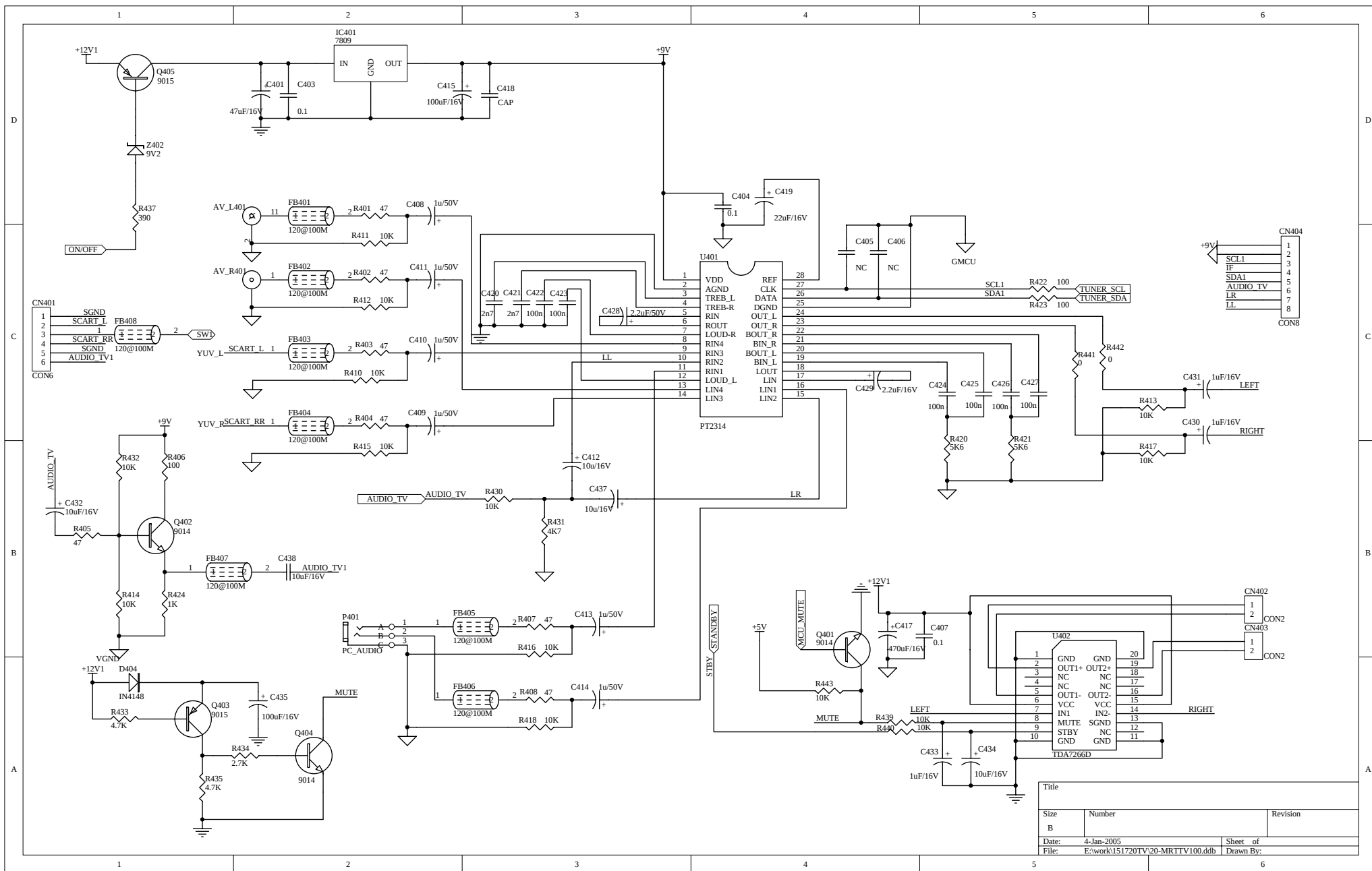
Title		
Size	Number	Revision
A3		
Date:	4-Jan-2005	Sheet of
File:	E:\work\151720TV20-MRTTV100.dfb	Drawn By:



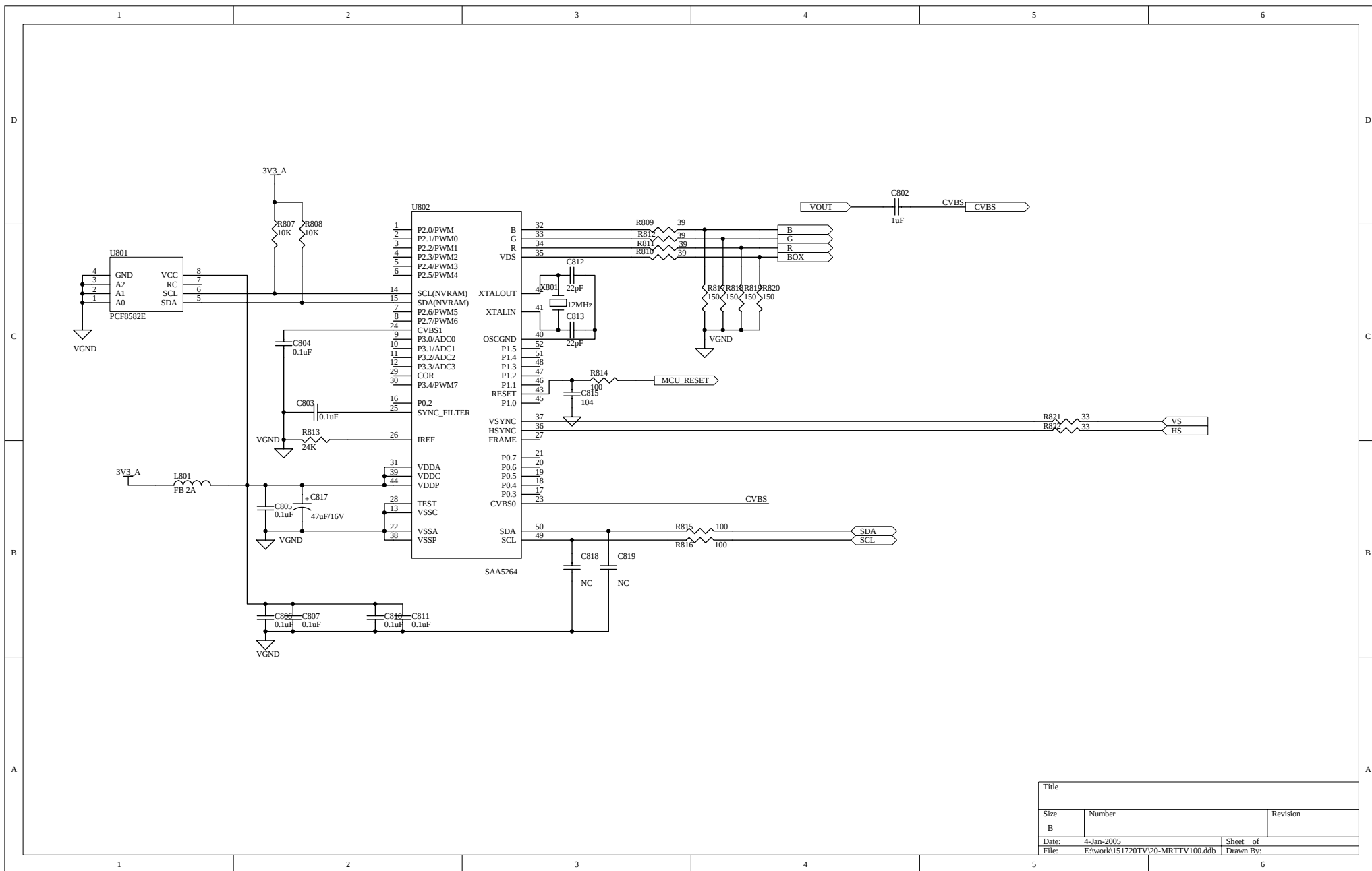


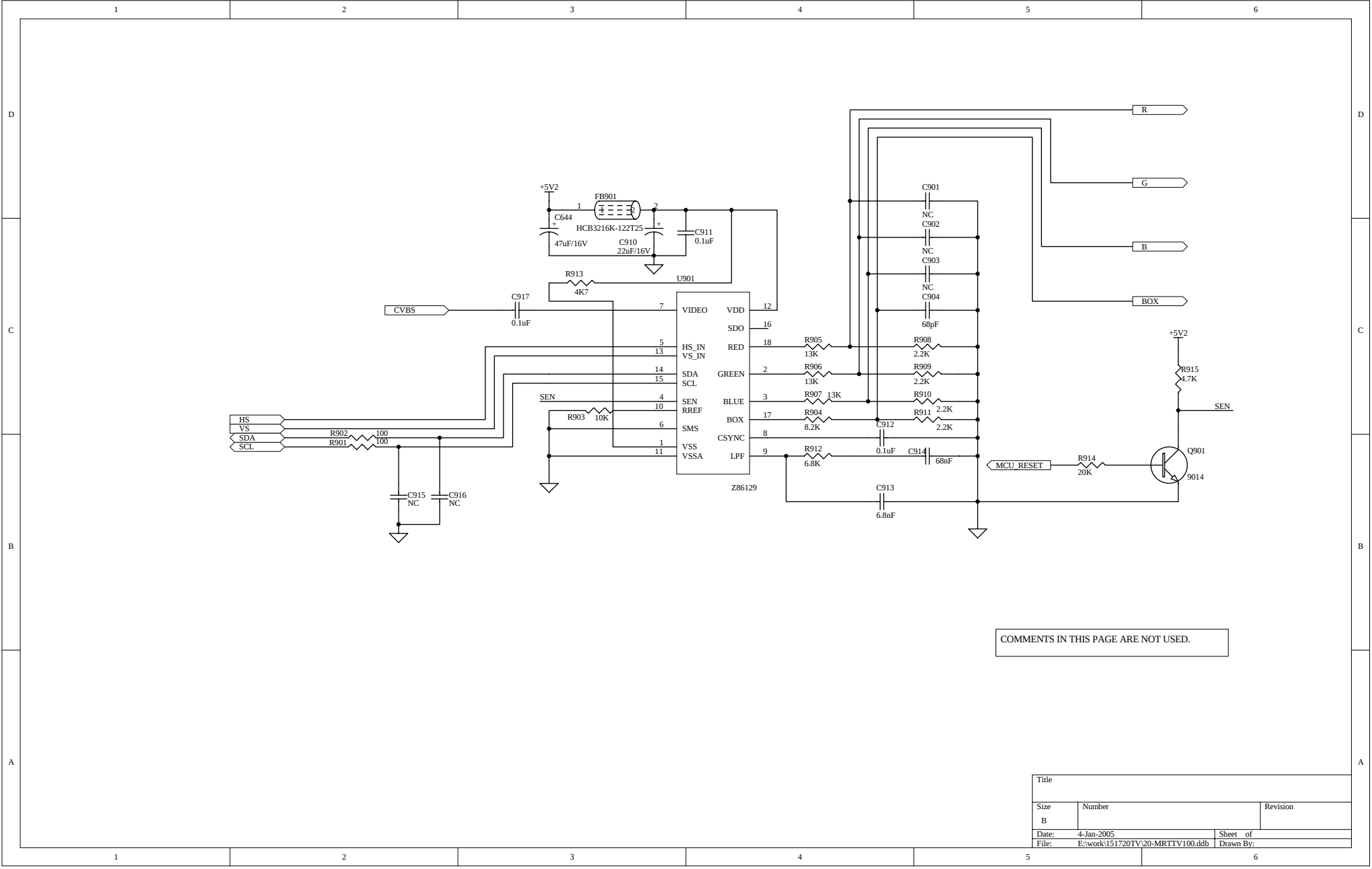
Title		
Size B	Number	Revision
Date:	4-Jan-2005	Sheet of
File:	E:\work\151720TV\20-MRTTV100.ddb	Drawn By:





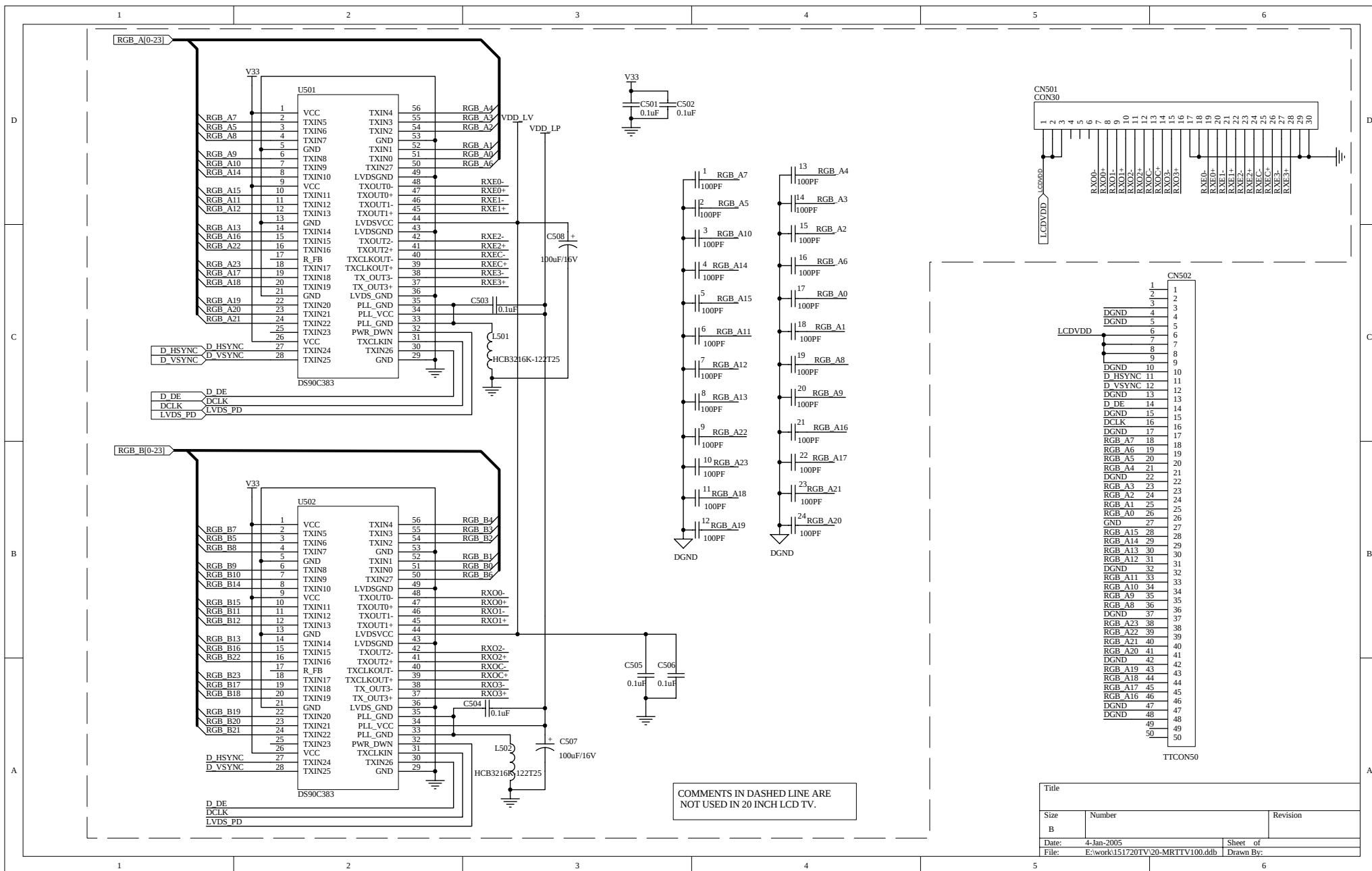
Title		
Size	Number	Revision
B		
Date:	4-Jan-2005	Sheet of
File:	E:\work\151720TV20-MRTTV100.ddb	Drawn By:

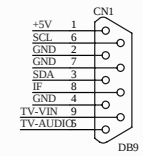
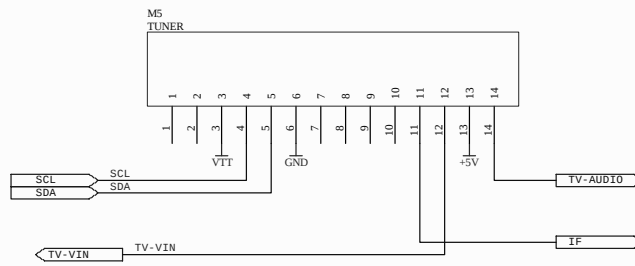
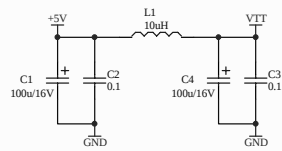


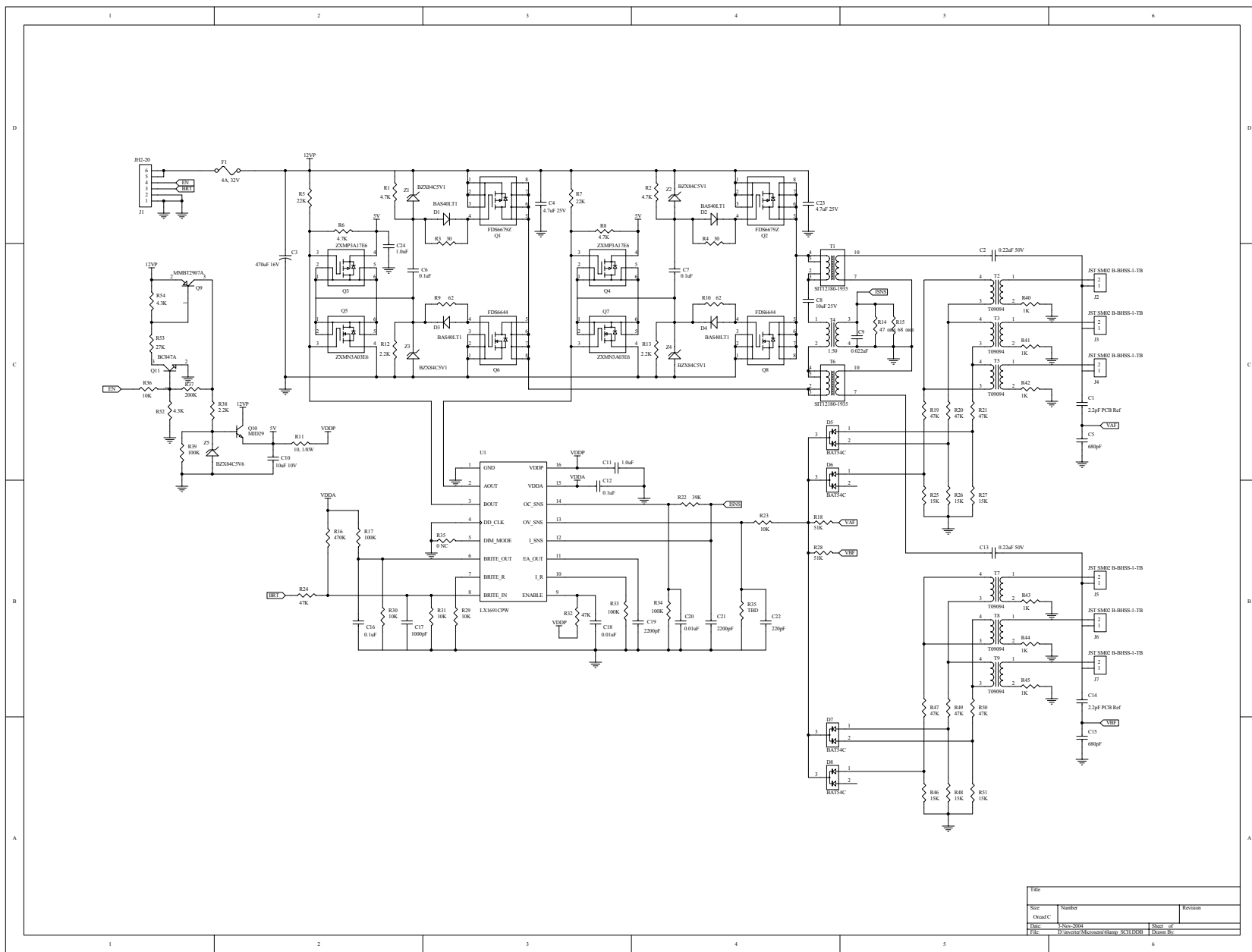


COMMENTS IN THIS PAGE ARE NOT USED.

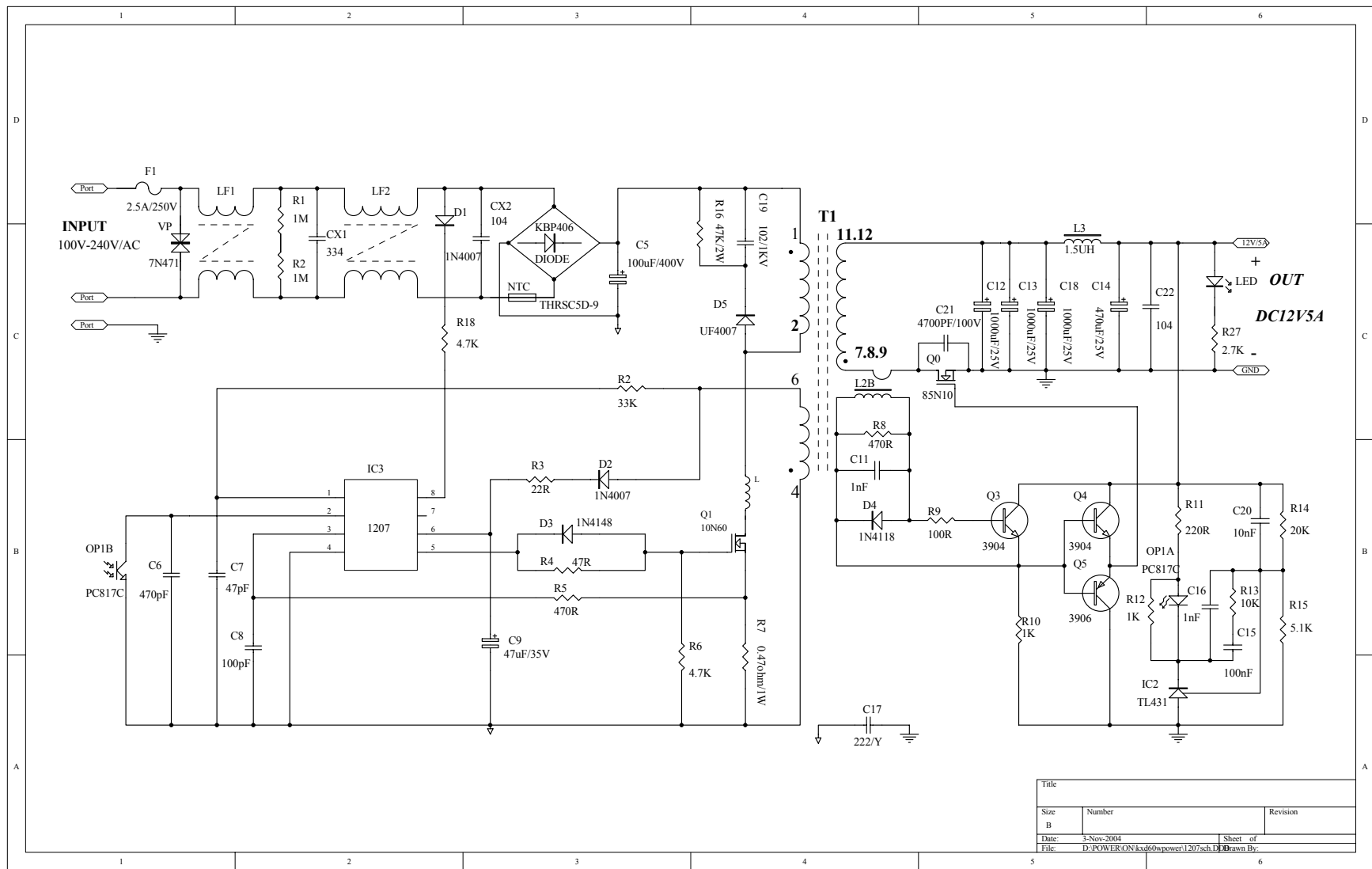
Title		
Size	Number	Revision
B		
Date:	4-Jan-2005	Sheet of
File:	E:\work\151720TV\20-MRTTV100.ddb	Drawn By:







Title			
Size	Number	Revision	
0x0x0	1		
Date	2004-05-05	Sheet of	1
File	D:\Inventor\Mechanical\amp\SCHEMATIC	Drawn By	



Title		
Size	Number	Revision
B		
Date:	3-Nov-2004	Sheet of
File:	D:\POWERON\ksd60power\1207sch.D	Drawn By:

		2001 MAIN BOARD ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	4041920002010	CONNECTOR, 2PIN, 2. 0mm, 180° , DIP	2. 000	CN402, CN403
	4041920007010	CONNECTOR, 7PIN, 2. 0mm, 180° , DIP	2. 000	CN401, CN102
	4041920006010	CONNECTOR, 6PIN, 2. 0mm, 180° , DIP	2. 000	CN601
	4041920011010	CONNECTOR, 11PIN, 2. 0mm, 180° , DIP	2. 000	CN101, CN701
	414101R16RM00	CAP-EL 16V-1uF-M	1. 000	C433
	414110116RM00	CAP-EL 16V-100uF-M	9. 000	C508, C611-C614, C646, C647, C649, C608, C508
	414110R16RM00	CAP-EL 16V-10uF-M	4. 000	C101, C305, C324, C434
	414022116RM00	CAP-EL 16V-220uF-M	3. 000	C636, C615, C616
	414122R16RM00	CAP-EL CD110-16V-22uF-M	1. 000	C110
	414147116RM00	CAP-EL CD110-16V-470uF-M	4. 000	C417, C603, C604, C605
	414147R16RM00	CAP-EL 16V-47uF-M	6. 000	C629, C631, C632, C634, C635, C637, C644
	4151000006240	ZENER-DIODE, DIP 6V2 1/2W	1. 000	Z201
	415201N414840	DIODE, DIP 1N4148	3. 000	D101, D208, D209

	415201N582200	SCHOTTKY BARRIER DIODE IN5822 28V, 3A	1. 000	D601
	4160000901400	NPN TRANSISTOR(TO-92) PSS9014C NPN (β =200-400)	6. 000	Q102-103, 401, 601, 602, 604
	4160000901500	PNP TRANSISTOR<TO-92> PSS9015B (β =150-250)	1. 000	Q101
	417000LA78050	3-Terminal Positive Regulator<TO-220> LA7805	1. 000	IC606
	417000M806410	8-bit MTP Micro-controller<PLCC44> M8064	1. 000	U101
	4170000TL4310	Precision Adjustable Shunt Regulator<TO-18> TL431	1. 000	IC301
	41700AT24C160	16K-bit 2-WIRE SERIAL CMOS EEPROM 24C16 <DIP-8>	1. 000	U102
	4201T15010310	DC POWER JACK DC-005	1. 000	POWER601
	4202T15011910	AV CONNECTOR AV3-8. 4-19S	1. 000	P701
	4204T15010310	PHONE JACK EJ-0357-3P	1. 000	P401
	420DT15011510	D-Sub, 15 Pin, Right angle DB-15 FEMALE (BLUE)	1. 000	CN201
	420ET15010910	D-Sub, 9 Pin, 180° DB-9A FEMALE (BLACK)	1. 000	TV701
	4240000061240	CRYSTAL<49S> 12MHz (20PF, +20PPM)	2. 000	X101, X301
	4240057662410	CRYSTAL (49S) 24. 576M(20PF, 频率+20PPM)	1. 000	X701

	42903D1428110	COMMON FILTER	1. 000	L602
		JLF-794-280uH		
	425T170100020	HEAT SINK	1. 000	U402
	405T200105310	20-MRTTV100. PCB	1. 000	PCB
	412700R01AJ80	CHIP RES 0603	3. 000	R319-R320, R317
		1/10W-0 Ω -J		
	412701011AJ80	CHIP RES 0603	6. 000	R120, R121, R226, R227, R731, R732
		1/10W-100 Ω -J		
	412701021AJ80	CHIP RES 0603	6. 000	R122, R123, R132, R306, R603, 739
		1/10W-1K-J		
	412701031AJ80	CHIP RES 0603	7. 000	R103, R307, R308, R440, R719-R720, R443
		1/10W-10K-J		
	412701041AJ80	CHIP RES 0603	3. 000	R101, R102, R606
		1/10W-100K-J		
	412701051AJ80	CHIP RES 0603	2. 000	R106, R321
		1/10W-1M-J		
	412701521AJ80	CHIP RES 0603	1. 000	R309
		1/10W-1K5-J		
	4127018R1AJ80	CHIP RES 0603	7. 000	R701, R703-707, R744,
		1/10W-18 Ω -J		
	412702021AJ80	CHIP RES 0603	1. 000	R601
		1/10W-2K-J		
	412702221AJ80	CHIP RES 0603	3. 000	R205, R206, R602
		1/10W-2. 2K-J		
	4127022R1AJ80	CHIP RES 0603	5. 000	R311-R313, R322, R726
		1/10W-22 Ω -J		
	412702721AJ80	CHIP RES 0603	3. 000	R119, R604, R130
		1/10W-2. 7K-J		

	412700R01AJ80	CHIP RES 0603 1/10W-27K-J	1	R439
	412703321AJ80	CHIP RES 0603 1/10W-3.3K-J	3.000	R223-R225
	4127033R1AJ80	CHIP RES 0603 1/10W-33 Ω -J	18.000	R124-R129, R134-R137, R301, R718, R723-R725, R733, R737, R302
	412703921AJ80	CHIP RES 0603 1/10W-3.9K-J	1.000	R710
	412704721AJ80	CHIP RES 0603 1/10W-4.7K-J	17.000	R702, R104, R107-112, 115-118, 605, 613, 614, 730, R133
	4127047R1AJ80	CHIP RES 0603 1/10W-47 Ω -J	8.000	R131, 203, 204, R209-R213
	412705111AJ80	CHIP RES 0603 1/10W-510 Ω -J	4.000	R303-R305, R323
	412705121AJ80	CHIP RES 0603 1/10W-5.1K-J	1.000	R105
	4127056R1AJ80	CHIP RES 0603 1/10W-56 Ω -J	6.000	R709, R711-R715
	4127075R1AJ80	CHIP RES 0603 1/10W-75 Ω -J	3.000	R214-R216
	412708221AJ80	CHIP RES 0603 1/10W-8K2-J	1.000	R310
	4127091R1AJ80	CHIP RES 0603 1/10W-91 Ω -J	6.000	R217-R222
	413510150RJ60	CHIP CAP 0603 50V-100P-J NPO	2.000	C208, C209
	413510250RK60	CHIP CAP 0603 50V-102-K	2.000	C316, C317

	413510350RK60	CHIP CAP 0603 50V-10nF-K	6.000	C214-219
	413510425RZ60	CHIP CAP 0603 25V-100nF-Z	73.000	C1-20, C22, C23, 25-31, 33, 34, C111-120, C201-205, 301-304, 323, 601, 602 606, 610, 617-627, 639-642, 648, 650, 729
	413510510RZ60	CHIP CAP 0603 10V-105-Z	4.000	C105, C106, C307, C643, C306, C104
	413515150RK60	CHIP CAP 0603 50V-151-K	1.000	C308
	413522R50RJ60	CHIP CAP 0603 50V-22pF-J	4.000	C320, C325, C326, C327
	413533150RK60	CHIP CAP 0603 50V-330P-K	14.000	C701, C703, C705-C712, C714, 715, C730, C735
	413539R50RJ60	CHIP CAP 0603 50V-39P-J	7.000	C107, C108, C318, C319, C109, 732, 733
	413547250RK60	CHIP CAP 0603 50V-472-K	3.000	C313-C315
	413547350RK60	CHIP CAP 0603 50V-473-K	19.000	C309, C717-C723, C725-C728, C742-C748
	413547R50RJ60	CHIP CAP 0603 50V-47pF-J	4.000	C220-C223
	413568150RK60	CHIP CAP 0603 50V-680P-K	1.000	C731
	415200BAV9960	DIODE (SOT-23B) BAV99	7.000	D201-D207
	4160000943500	P-CHANNEL MOS (SO-8) 9435	1.000	Q603
	417AT17965010	STEP-DOWN SWITCHING REGULATOR AT1796-50 150KHz, 3A , TO-263	1.000	IC601
	417024LC21A00	1K 2.5V DUAL .0DE IIC SERIAL EEPROM	1.000	U202

		24LC21A S0-8		
	4170074LV1440	HEX SCHMITT-TRIGGER INVERTERS<S014> 74LV14	1.000	U201
	41700TDA7266D	5+5 DUAL BRIDGE AMPLIFIER (S020) TDA7266D	1.000	U402
	41700AMS11170	800mA Low-Dropout Linear Regulator AMS1117-3.3V S0T-223	2.000	IC604, IC605
	417AZ1084S3V3	5 Amp Low Dropout Positive Voltage Reg AZ1084S-3.3V TO-263	1.000	IC602
	417MASCOTV200	IC<PQFP> Mascot V2	1.000	U301
	417SAA7118H00	Multistandard video decode (PQFP) SAA7118H	1.000	U701
	4209000004410	SOCKET PLCC44	1.000	U101
	42833R0082010	RES 33 Ω *4	10.000	RP7-RP16
	4284720082010	RES 4K7*4	1.000	RP101
	429042R2J7020	INDUCTOR 2.2uH 2.5A	3.000	L701, L705, L706
	429042R2J8010	CHIP INDUCTOR 0603 2.2uH	2.000	L702, L703
	4290447RJA010	INDUCTOR (贴片) 47uH, 2.5A	1.000	L601
	4290512106010	CHIP BEAD 0805 120 OHM@100MHz	13.000	FB201-FB206, FB701, FB703-FB707, FB709
	4290512207020	CHIP BEAD 1206 HCB3216K-122T10	5.000	FB207, 302, 301, 604, 605

	4290512207030	CHIP BEAD 1206	2. 000	FB601, FB608, FB607
		HCB3216K-122T25		
	4290550108010	CHIP BEAD 0603	1. 000	FB208
		500 OHM@100MHz		
				《END》

		15-20" TUNER ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	405T150105700	TURNER. PCB 91*63.4mm	1.000	PCB
	413210450RZ00	CAP 50V-104-Z	2.000	C2, C3
	414133R10RM00	CAP-EL CD110-10V-33uF-M	2.000	C1, C4
	420ET15010920	D-Sub, 9 Pin, 180° DB-9A MAIL (BLACK)	1.000	CN1
	429EC041010R0	COIL INDUCTOR 10uH 500mA	1.000	L1
	4320006000500	JUMPER 5mm	2.000	J4, J5
	4320006001000	JUMPER 10mm	1.000	J1
	442JS6B212110	TUNER JS-6B2/121 (PAL/SECAM-LL')	1.000	TUNER
	4320006000750	JUMPER 7.5mm	1.000	J3
	4320006001250	JUMPER 12.5mm	1.000	J2
				《END》

		20" INVERTER ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	414147125RM01	CAP CD288H-25V-470u-M(10*16mm)	1.000	C3
	4042920006010	CONNECTER, 6PIN, 2.0mm, 90°, DIP	1.000	J1
	413522450RZ40	CHIP CAP 0805 50V-0.22uF-Z	4.000	C13, C2, C6, C7
	413547525RZ70	CHIP CAP 1210 25V-4.7uF-Z	2.000	C23, C4
	413568150RK60	CHIP CAP 0603 50V-680P-K	2.000	C15, C5
	413510450RZ60	CHIP CAP 0603 50V-0.1uF-Z	2.000	C12, C16
	413510625RZ70	CHIP CAP 1210 25V-10u-Z	1.000	C8
	413522350RK60	CHIP CAP 0603 50V-0.022u-K	1.000	C9
	413510616RZ70	CHIP CAP 1210 16V-10uF-Z	1.000	C10
	413510516RZ40	CHIP CAP 0805 16V-105-Z	2.000	C11, C24

	413510250RK60	CHIP CAP 0603	1.000	C17
		50V-102-K		
	413510350RK60	CHIP CAP 0603	2.000	C18, C20
		50V-10nF-K		
	413522250RK60	CHIP CAP 0603 X7R	2.000	C21, C19
		50V-2200P-K		
	412702221AJ80	CHIP RES 0603	3.000	R12, R13, R38
		1/10W-2.2K-J		
	4127030R1AJ80	CHIP RES 0603	2.000	R4, R3
		1/10W-30 Ω -J		
	412702231AJ80	CHIP RES 0603	2.000	R7, R5
		1/10W-22K Ω -J		
	412704721AJ80	CHIP RES 0603	4.000	R8, R6, R1, R2
		1/10W-4.7K-J		
	4127062R1AJ80	CHIP RES 0603	2.000	R9, R10
		1/10W-62R-J		
	4127010R1AJ60	CHIP RES 0805	1.000	R11
		1/10W-10 Ω -J		
	4127068R1AJ60	CHIP RES 0805	1.000	R14
		1/10W-68 Ω -J		
	412701041AJ80	CHIP RES 0603	3.000	R17, R34, R39
		1/10W-100K-J		
	412704731AJ80	CHIP RES 0603	8.000	R19, 20, 21, R32, R47, R49, R50, R24
		1/10W-47K-J		

	412703931AJ80	CHIP RES 0603	1.000	R22
		1/10W-39K J		
	412701031AJ80	CHIP RES 0603	2.000	R23, R36
		1/10W-10K-J		
	412701031AF80	CHIP RES 0603	2.000	R29, R30
		1/10W-10K-F		
	412701531AJ80	CHIP RES 0603	7.000	R25, R26, R27, R31, R46, R48, R51
		1/10W-15K-J		
	412701041AF80	CHIP RES 0603	1.000	R33
		1/10W-100K-F		
	412702041AJ80	CHIP RES 0603	1.000	R37
		1/10W-200K-J		
	412701021AJ80	CHIP RES 0603	6.000	R40, R41, R42, R43, R44, R45
		1/10W-1K-J		
	412704321AJ80	CHIP RES 0603	2.000	R54, R52
		1/10W-4.3K-J		
	412702731AJ80	CHIP RES 0603	1.000	R53
		1/10W-27K-J		
	4152BAS40LT60	DIODE	4.000	D1, D2, D3, D4
		BAS40LT1		
	41520BAT54C60	DIODE	4.000	D5, D6, D7, D8
		BAT54C S0-23		
	4151084C5V160	ZENER DIODE S0-23	4.000	Z1, Z2, Z3, Z4
		BZX84C5V1		

	4151084C5V660	ZENER DIODE S0-23	1.000	Z5
		BZX84C5V6		
	416MMBT290720	TRANSISTOR S0T-23	1.000	Q9
		MMBT2907A		
	416002SD18030	TRANSISTOR 2SD1803	1.000	Q10
		T0-252		
	41600BC847A20	TRANSISTOR S0T-23	1.000	Q11
		BC847A		
	417FDS6679Z10	IC FDS6679Z	2.000	Q2, Q1
	416S13457DV20	IC SI3457DV-T1	2.000	Q3, Q4
	416S13456DV20	IC SI3456DV-T1	2.000	Q5, Q7
	41700FDS66440	IC	2.000	Q6, Q8
		FDS6644		
	417016911PW10	IC (TSSOP)	1.000	U1
		LX1691CPW/IPW		
	42225005000T0	FUSE	1.000	F1
		F5A, 1206		
	411SIT1218000	TRANSFORMER (SMT)	2.000	T1, T6
		SIT12180-1935 (AU屏)		
	4042965002010	CONNECTOR	6.000	J2, J3, J4, J5, J6, J7
		SM02B-BHSS-1-TB		

	405T200105210	20LX1691. PCB	1. 000	500MM*185MM
		2004. 8. 9		
	412705131AJ80	CHIP RES 0603	2. 000	R18, 28
		1/10W-51K-J		
	412704741AJ80	CHIP RES 0603	1. 000	R16
		1/10W-470K-J		
	413522150RJ60	CHIP CAP 0603	1. 000	C22
		50V-220pF-J		
	4127047R1AJ60	CHIP RES 0805	1. 000	R15
		1/10W-47 Ω -J		
	41100T0909400	TRANSFORMER (SMT)	6. 000	T2, T3, T5, T7, T8, T9
		T09040		
	411T200100000	TRANSFORMER (1 : 50)	1. 000	T4
		T6*3*2		
				《END》

		2001KEYBOARD ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	7516T2001001M	MTV-2001A KEY BOARD ASSEMBLY	1.000	
	40300T1701000	SWITCH	7.000	P+, P-, V-, V+, MENU, SOURCE, POWER
		6*6*5mm		
	4041920011010	CONNECTER, 11PIN, 2.0mm, 180° , DIP	1.000	CON1
		TJC4-11Y		
	405T200105110	MTV2001KEY. PCB	1.000	PCB
		2004.6.22		
	410A010300020	LED<DIP>	1.000	LED
		COMMON CATHODE (RED&GREEN)		
	415201N414840	DIODE DIP	2.000	D1, D2
		1N4148		
	4300KSM603LM0	INFRARED SENSOR (CSC9900)	1.000	REMOUT
		KSM-603LM (MT2) \GPLUV701QS		
				《END》

	20" SCART ASSEMBLY (WITHOUT NICAM)			
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
. 1	7546T2001A00M	MTV-2001 SCART ASSEMBLY	1. 000	
.. 2	4041920006010	CONNECTER, 6PIN, 2. 0mm, 180° , DIP	1. 000	CN1
.. 2	4041920010010	CONNECTER, 10PIN, 2. 0mm, 180° , DIP	1. 000	CN2
.. 2	405T200105420	20TVSCART. PCB	1. 000	SCART BOARD
		04/06/23		
.. 2	420BT15012110	SCART JACK	1. 000	CN3
		RC-2105		
.. 2	4320006000500	JUMPER	4. 000	J1, J2, J3, J4
		5mm		
	414110R16RM00	CAP-EL	2. 000	C432, C438
		16V-10uF-M		
	4160000901400	NPN TRANSISTOR (TO-92)	4. 000	Q104, Q105, Q402, Q701
		PSS9014C NPN (β =200-400)		
	414110116RM00	CAP-EL<RB. 2/. 5> (DL:6*8)	1. 000	C739
		16V-100uF-M		
	414022116RM00	CAP-EL	1. 000	C741
		16V-220uF-M		
	4127047R1AJ80	CHIP-RES 0603	3. 000	R405, R728, R727
		1/10W-47 Ω -J		

	412701031AJ80	CHIP RES 0603	7. 000	R721, R432, R414, R746, R139, R141, R142
		1/10W-10K-J		
	412701011AJ80	CHIP RES 0603	1. 000	R406
		1/10W-100 Ω -J		
	412701021AJ80	CHIP RES 0603	1. 000	R424
		1/10W-1K-J		
	4290512106010	CHIP BEAD 0805	4. 000	FB407, FB702, FB408, FB708
		120 OHM@100MHz		
	4127056R1AJ80	CHIP RES 0603	1. 000	R745
		1/10W-56 Ω -J		
	412702021AJ80	CHIP RES 0603	1. 000	R140
		1/10W-2K-J		
	412700R01AJ80	CHIP RES 0603	2. 000	R113, R708
		1/10W-0 Ω -J		
	4127075R1AJ80	CHIP RES 0603	1. 000	R716
		1/10W-75 Ω -J		
	412704721AJ80	CHIP RES 0603	1. 000	R138
		1/10W-4. 7K-J		
	412704711AJ80	CHIP RES 0603	1. 000	R729
		1/10W-470 Ω -J		
				《END》

		A201SN01PANEL ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	420FT20015010	FFC CONNECTER	1.000	CN502
		FFC-0.5-SMT-50PWX		
	4290512207030	CHIP BEAD 1206	1.000	FB606
		HCB3216K-122T25		
				《END》

		SOUND (WITHOUT NICAM)		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
...	3	412703911AJ80	CHIP RES 0603 1/10W-390 Ω-J	1.000 R437
...	3	413510425RZ60	CHIP CAP 0603 25V-100nF-Z	3.000 C403, C404, C407
...	3	4290512106010	CHIP BEAD 0805 120 OHM@100MHz	6.000 FB401-FB406
...	3	4127047R1AJ80	CHIP RES 0603 1/10W-47 Ω-J	6.000 R401-R404, R407, R408
...	3	412701031AJ80	CHIP RES 0603 1/10W-10K-J	8.000 R410-R413, R415-418
...	3	412700R01AJ80	CHIP RES 0603 1/10W-0 Ω-J	1.000 R430, R441, R442
...	3	412701011AJ80	CHIP RES 0603 1/10W-100 Ω-J	2.000 R422, R423
...	3	412705621AJ80	CHIP RES 0603 1/10W-5K6-J	2.000 R420, R421
...	3	41700PT2314L0	IC<S0-28> PT2314	1.000 U401
..	2	415100009V140	ZENER DIODE DIP 9V1 0.5W	1.000 Z402
..	2	4160000901500	PNP TRANSISTOR<T0-92> PSS9015B (β=150-250)	1.000 Q405
..	2	414147R16RM00	CAP-EL Φ5*7 16V-47uF-M	1.000 C401

..2	414110116RM00	CAP-EL<RB. 2/. 5> (DL:6*8)	1. 000	C415
		16V-100uF-M		
..2	414101R16RM00	CAP-EL<RB. 2/. 5>	8. 000	C408-C411, C413, C414, C430, C431
		16V-1uF-M		
..2	413127225RK00	CAP-FILM	2. 000	C420, C421
		25V-2n7-K		
..2	413110425RK00	CAP-FILM	6. 000	C422-C427
		25V-104-K		
..2	41412R216RM00	CAP-EL<RB. 2/. 5>	2. 000	C429, C428
		16V-2. 2uF-M		
..2	414110R16RM00	CAP-EL	2. 000	C412, C437
		16V-10uF-M		
..2	414122R16RM00	CAP-EL ϕ 5*11	1. 000	C419
		CD110-16V-22uF-M		
..2	417000078L090	IC (T0-92)	1. 000	IC401
		78L09		
				《END》

		TELETEXT ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	412701031AJ80	CHIP RES 0603 1/10W-10K-J	2.000	R807, R808
	412702431AJ80	CHIP RES 0603 1/10W-24K-J	1.000	R813
	4127039R1AJ80	CHIP RES 0603 1/10W-39 Ω -J	4.000	R809-R812
	412701511AJ80	CHIP RES 0603 1/10W-150 Ω -J	3.000	R817-819
	412701011AJ80	CHIP RES 0603 1/10W-100 Ω -J	3.000	R814, R815, R816
	4127033R1AJ80	CHIP RES 0603 1/10W-33 Ω -J	2.000	R821, R822
	413510425RZ60	CHIP CAP 0603 25V-100nF-Z	7.000	C803-807, 810-811
	413510510RZ60	CHIP CAP 0603 10V-105-Z	1.000	C802
	413522R50RJ60	CHIP CAP 0603 50V-22pF-J	2.000	C812, C813
	4290512207030	CHIP BEAD 1206 HCB3216K-122T25	1.000	L801
	417S0AT24C160	IC AT24C16 S08M1	1.000	U801
		IC(DIP)	1.000	U802
		SAA5264PS/M3/0104		

	417S0AT24C160	IC AT24C16 S08	1. 000	U801
	4240000061240	CRYSTAL<49S>	1. 000	X801
		12MHz (20PF, +-20PPM)		
	414110116RM00	CAP-EL<RB. 2/. 5> (DL:6*8)	1. 000	C817
		16V-100uF-M		
				《END》

		2001 NO COMMON PART		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	704T1501B0020	REMOTE CONTROLLER	1.000	
		RM612		
	40910T2001PW0	POWER CORD	1.000	
	419A201SN0110	20' ' TFT PANEL (AU)	1.000	
		A201SN01		
	437T150100020	WIRE (10P-11P, 2.0) (2468 26#)	1.000	SCART (CN2)-MAIN (CN701)
		50mm		
	437T150100050	WIRE (6P, 2.0) (2468AWG 26#)	1.000	SCART (CN1)-MAIN (CN401)
		50mm		
	437T200100010	WIRE (11P, 2.0) (2547AWG28#)	1.000	MAIN (CN101)-KEYBOARD (CN1)
		350mm		
	437T200100050	WIRE	1.000	H501
	437T200100070	WIRE (6P, 2.0) (2547AWG24#)	1.000	MAIN (CN601)-INVERTER
		300mm		
	4290A251512R0	EMI RH TYPE	1.000	
		Φ 25*15*12		
				《END》

	20"	ADAPTER ASSEMBLY		
DATE: 2004-09-09				
	PART NO.	DESCRIPTION	QTY	LOCATION
	4105010300010	LED	1.000	LED
	411BCK3027A10	TRANSFORMER (PQ32)	1.000	T1
		BCK-PQ32-3027A		
	4123047302J20	METAL OXIDE RESISTOR (DIP)	1.000	R16
		RY-2W-47K-J		
	412A0R4702J00	WIREWOUND RESISTOR	1.000	R7
		RX-2W-0.47 Ω -J		
	4129005R01J20	HEAT VARIABLE RESISTOR	1.000	NTC
		MWF22-5D-9 (5 Ω , 3A)		
	412A047112J00	PIEZORESISTANCE	1.000	VP
		Z471		
	4130102102K00	HIGH VOLTAGE CERAMIC CAPACITOR	1.000	C19
		CC1-1000V-102-K		
	4130222501K00	HIGH VOLTAGE CERAMIC CAPACITOR	1.000	C23
		CT1-500V-222-K		
	4130472501K00	HIGH VOLTAGE CERAMIC CAPACITOR	1.000	C21
		CT1-500V-472-K		
	4136104271K02	X2 CAPACITOR	1.000	CX2
		AC275V-104-K		

	4136222251K02	Y1 CAPACITOR	1.000	C17
		AC250V-222-K		
	4136334271K02	X2 CAPACITOR	1.000	CX1
		AC275V-334-K		
	4140101401M00	CAP-EL DL:20*35(105°)	1.000	C5
		CD11G-400V-100u-M		
	414010225RM0A	CAP-EL (DL: 10*30)	3.000	C12 C13 C18
		CD288H-25V-1000u-M 105°		
	414047125RM0A	CAP-EL	1.000	C14
		CD288H-25V-470u-M		
	414047R35RM0A	CAP-EL	1.000	C9
		CD288H-35V-47u-M		
	415301N400740	DIODE	2.000	D1 D2
		1N4007		
	41530UF400740	DIODE	1.000	D5
		UF4007		
	415400RS40610	BRIDGE RECTIFIER	1.000	BD1
		3A 600V(RS406)		
	4160000390400	TRANSISTOR	2.000	Q3 Q4
		3904 T0-92		
	4160000390600	TRANSISTOR	1.000	Q5
		3906 PNP β =250-300 T0-92		
	4160010N60B00	MOSFET 10N60B	1.000	Q1
		T0-220		

	4160SUP85N10E	MOSFET SUP85N10E	1.000	Q0
		T0-220		
	41700000P6210	IC(DIP)	1.000	PH
		PC817		
	4170000TL4310	IC<T0-92>	1.000	IC2
		TL431		
	4200UC3843010	AC SOCKET	1.000	
		SS-120-PCB-2.0AC1		
	4222500250130	FUSE T2.5A 250V VDE/UL	1.000	F1
	425T2001PW010	HEAT SINK	1.000	
		728-200001-00		
	425T2001PW020	HEAT SINK	1.000	
		728-200002-00		
	429030577AT13	COMMON FILTER	1.000	L1
		LCL-T13-0577A		
	4292020598A10	INDUCTOR	1.000	L2
		LCL-T18-0598A		
	429031050AB60	INDUCTOR	1.000	L3
		DQG-B6-1050A		
	42903HGQT1070	MUTUAL-INDUCTOR	1.000	L2B
		HGQ-T10-70		
	4320006000500	JUMPER	1.000	J4
		5mm		

	4320006000750	JUMPER	1.000	J6
		7.5mm		
	4320006001000	JUMPER	2.000	J3, J7
		10mm		
	4320006001250	JUMPER	2.000	J1, J2
		12.5mm		
	43700KXD321M2	DC WIRE	1.000	1.2m
		KXD-32(1450mm)		
	437T2001PW010	WIRE	1.000	
		110mm		
	606T2001PW000	MYLAR SLICE (20*25*0.25mm)	1.000	L2-AC SOCKET
		615-200001-00		
	6090050040010	HIGH VOLTAGE INSULATION TAPE	3.000	
		WIDTH=40mm		
	405T2001PW010	KXD1207POWER. PCB	1.000	PCB
		MTV2001电源		
	412701021AJ60	CHIP RES 0805	4.000	R9-12
		1/10W-1K-J		
	412701031AJ60	CHIP RES 0805	1.000	R13
		1/10W-10K-J		
	4127010514J70	CHIP RES 1206	2.000	R0 R1
		1/4W-1M-J		
	4127010R1AJ60	CHIP RES 0805	1.000	R20
		1/10W-10Ω-J		

	412702031AF60	CHIP RES 0805	1.000	R14
		1/10W-20K-F		
	4127022R1AJ60	CHIP RES 0805	1.000	R3
		1/10W-22 Ω -J		
	4127027214J70	CHIP RES 1206	1.000	R27
		1/4W-2.7K-J		
	4127047114J70	CHIP RES 1206	1.000	R8
		1/4W-470R-J		
	412704711AJ60	CHIP RES 0805	1.000	R5
		1/10W-470R-J		
	412704721AJ60	CHIP RES 0805	2.000	R6, R18
		1/10W-4.7K-J		
	412704731AJ60	CHIP RES 0805	1.000	R2
		1/10W-47K-J		
	4127047R1AJ60	CHIP RES 0805	1.000	R4
		1/10W-47 Ω -J		
	412705121AF60	CHIP RES 0805	1.000	R15
		1/10W-5.1K-F		
	413510150RJ40	CHIP CAP 0805	1.000	C8
		50V-100P-J		
	413510250RK40	CHIP CAP 0805	2.000	C11, C16
		50V-102-K		
	413510450RZ40	CHIP CAP 0805	3.000	C1, C15, C22
		50V-104-Z		

	413547150RJ40	CHIP CAP 0805	1.000	C6
		50V-470P-J		
	415201N414860	DIODE	2.000	D3, D4
		1N4148		
	41700NCP1207D	IC (S0-8)	1.000	IC1
		NCP1207D		
				《END》