

LCD TV

Service Manual

Chassis: MS9

Product Type: LCD3733EU

LCD4033NEU

LCD4233EU

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1. Product Safety Servicing Guidelines

WARNING:

Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver. The following are the necessary precaution to be observed before serving this chassis.

1. Since the power supply circuit of this receiver is directly connected to the AC power line, an Isolation transformer should be used during any dynamic service to avoid possible shock hazard.
2. 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 cover, shields, isolation resistor-capacitor network etc.
3. When replacing parts or circuit boards, disconnect the power cord.
4. When replacing a high wattage resistor (oxide metal film resistor) on the circuit board, keep the resistor (1/2in) away from circuit board.
5. Connection wires must be kept away from components with high voltage or high temperature.
6. If any fuse in this LCD TV receiver is blown, replace it with the FUSE specified in the chassis part list.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the set.

Many electrical and mechanical parts in the chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection. When replacement parts are required, be sure the service technician uses replacement parts specified by us that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock and injury to persons or other hazards. This LCD TV product should be situated away from heat source such as radiation, stoves, or other product that produce heat.

2 Product Function Specifications

Native Resolution: 1366 x 768 Pixels (corresponding to WXGA)
 Colour System: PAL/SECAM
 Sound System: B/G, D/K, I, L/L'
 Tuner: VHF/UHF: 48.25~863.25MHz
 Antenna: 75Ω VHF/UHF input
 Stereo: NICAM/A2

VIDEO INPUT:

SCART-1 (Video and RGB) Video: 1 Vp-p, negative sync, 75Ω input
 RGB: 0.7 Vp-p, 75Ω input
 SCART-2 (Video) Video: 1 Vp-p, negative sync, 75Ω input
 Audio in Stereo audio input for SCART1 and SCART2
 COMPONENT RCA, 0.7 Vp-p/75Ω input
 (480I/60Hz, 480P/60Hz, 576I/50Hz, 576P/50Hz, 720P/60Hz,
 1080I/50Hz, 1080I/60Hz)
 Audio in RCA Stereo audio input

PC INPUT:

VGA 15 Pin , Analog RGB signal, 0.7Vp-p, 75Ω input
 (VGA, SVGA, XGA)
 Audio in RCA Stereo audio input

MONITOR OUT

Power Requirement AC 160 to 240V, 50/60Hz

	LCD3733EU	LCD4033NEU	LCD4233EU
Screen Size	94cm	102cm	107cm
Speaker Output	6W+6W	6W+6W	7W+7W
Power Consumption	200W	265W	250W
Dimensions(mm) L/D/H	953/240/740.5	1013/302.9/774.4	1033/310/750
Weight	23.8kg	25kg	26kg

Allowable temperature of operation environment

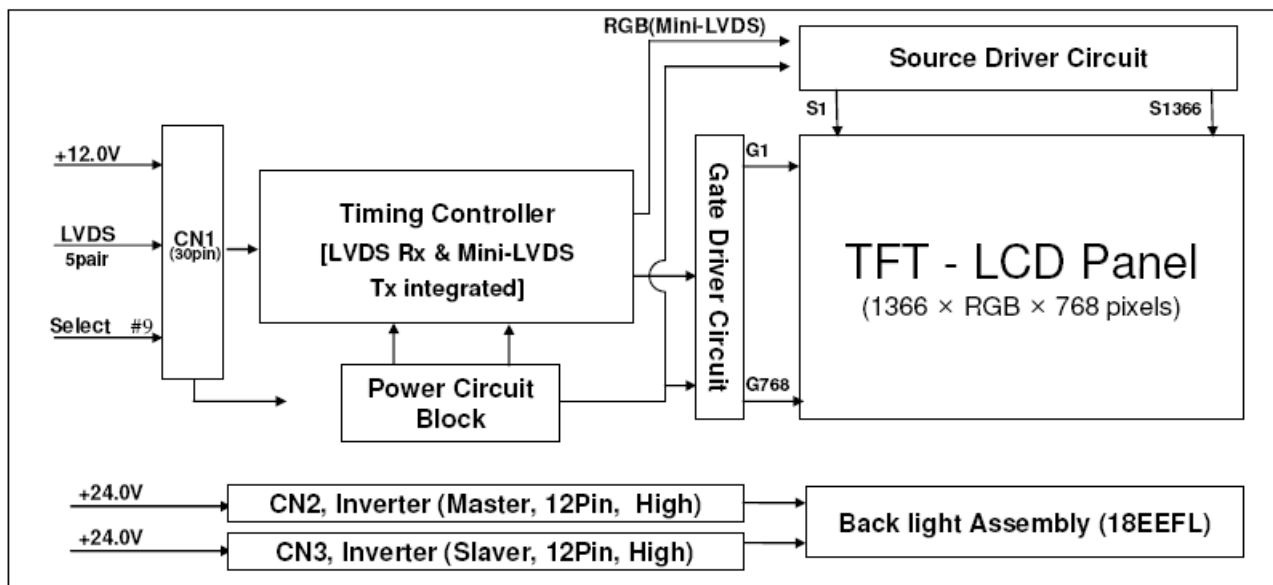
.....0°C to 40°C

3. LCD Panel Spec

3-1 General Description

LCD3733EU、LCD4033NEU、LCD4233EU'S LCD Panel is a TFT LCD module with 18-EEFL Backlight unit and 1ch-LVDS interface. This module supports 1366 x 768 WXGA format and can display true 16.7M colors (8-bit colors).

The inverter module for backlight is built-in.



3-2 General Features

LCD3733EU:

□ Specification

• Resolution	: WXGA (1366x768)	• Viewing angle	: 178/178
• Dimension	: 877.0 × 516.8 × 55.5 mm	• Interface	: LVDS 1 Port (30pin)
• Luminance	: 500nit (1P,Typ.)	• Color Depth	: 8 bit
• Response time	: 6ms (G to G,Typ.)	• Color Saturation	: 72%
• Contrast Ratio	: 1000:1	• Color Temperature	: 9300K
• Etc	: 14pin Inverter		

LCD4033NEU:

Items	Specification	Unit	Note
Module Size	952.0(H _{TYP}) x 551.0(V _{TYP})	mm	±1.0mm
	51.8(D _{MAX})		
Weight	11,000(Max.)	g	
Pixel Pitch	0.648(H) x 0.216(W)*3	mm	
Active Display Area	885.168(H) x 497.664(V)	mm	
Surface Treatment	Haze 44% , Hard-coating (3H)		
Display Colors	8 bit - 16.7M	colors	
Number of Pixels	1366 x 768	pixel	
Pixel Arrangement	RGB vertical stripe		
Display Mode	Normally Black		
Luminance of White	500 (Typ.)	cd/m ²	

LCD4233EU:

Active Screen Size	42.02 inches(1067.308mm) diagonal
Outline Dimension	983 mm(H) x 576 mm(V) x 51 mm(D) (Typ.)
Pixel Pitch	0.227mm x 0.681mm x RGB
Pixel Format	1366 horiz. by 768 vert. Pixels RGB stripe arrangement
Color Depth	8-bit, 16.7 M colors
Luminance, White	500 cd/m ² (Center 1-point) (Typ.)
Viewing Angle (CR>10)	Viewing Angle Free (R/L 178 (Typ.), U/D 178 (Typ))
Power Consumption	Total 166.0 W (Typ.) (Logic=6.00 W, Inverter=160W [I _{BL} =7.5mA])
Weight	10.5 Kg (Typ.)
Display Operating Mode	Transmissive mode, Normally black
Surface Treatment	Hard coating(3H), Anti-glare treatment of the front polarizer

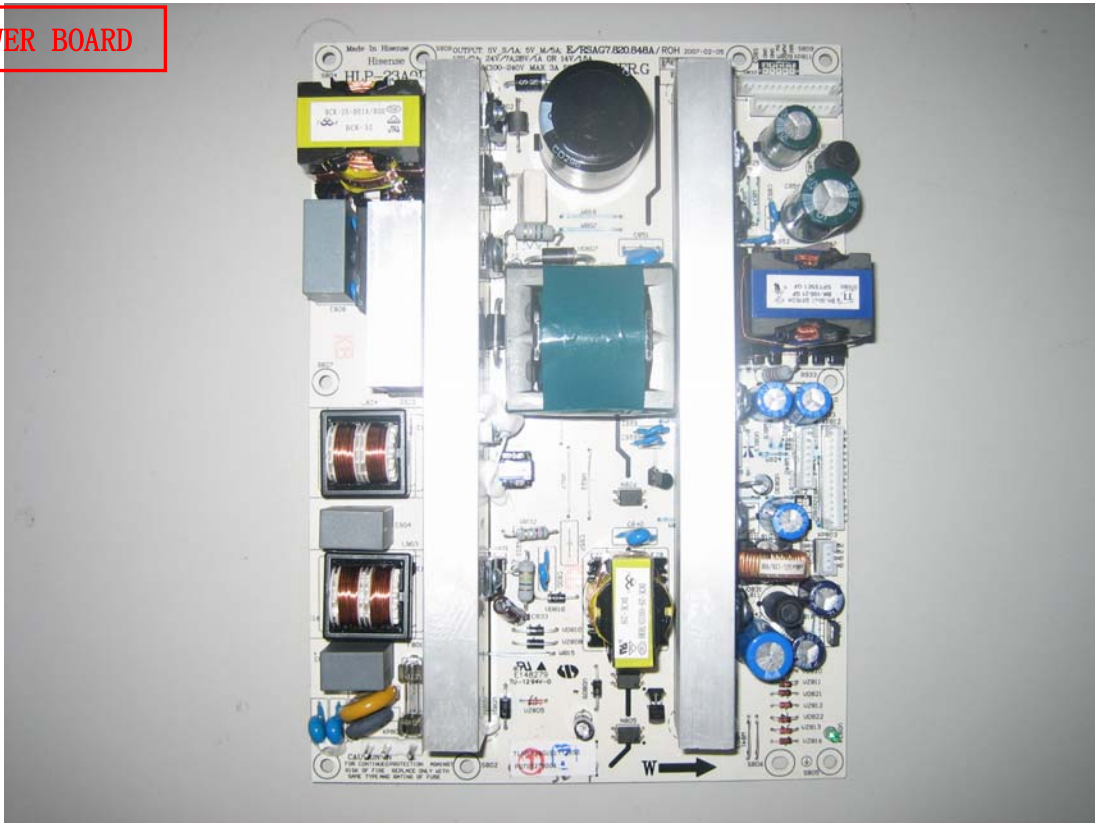
4. Block Diagram

4-1 Main board

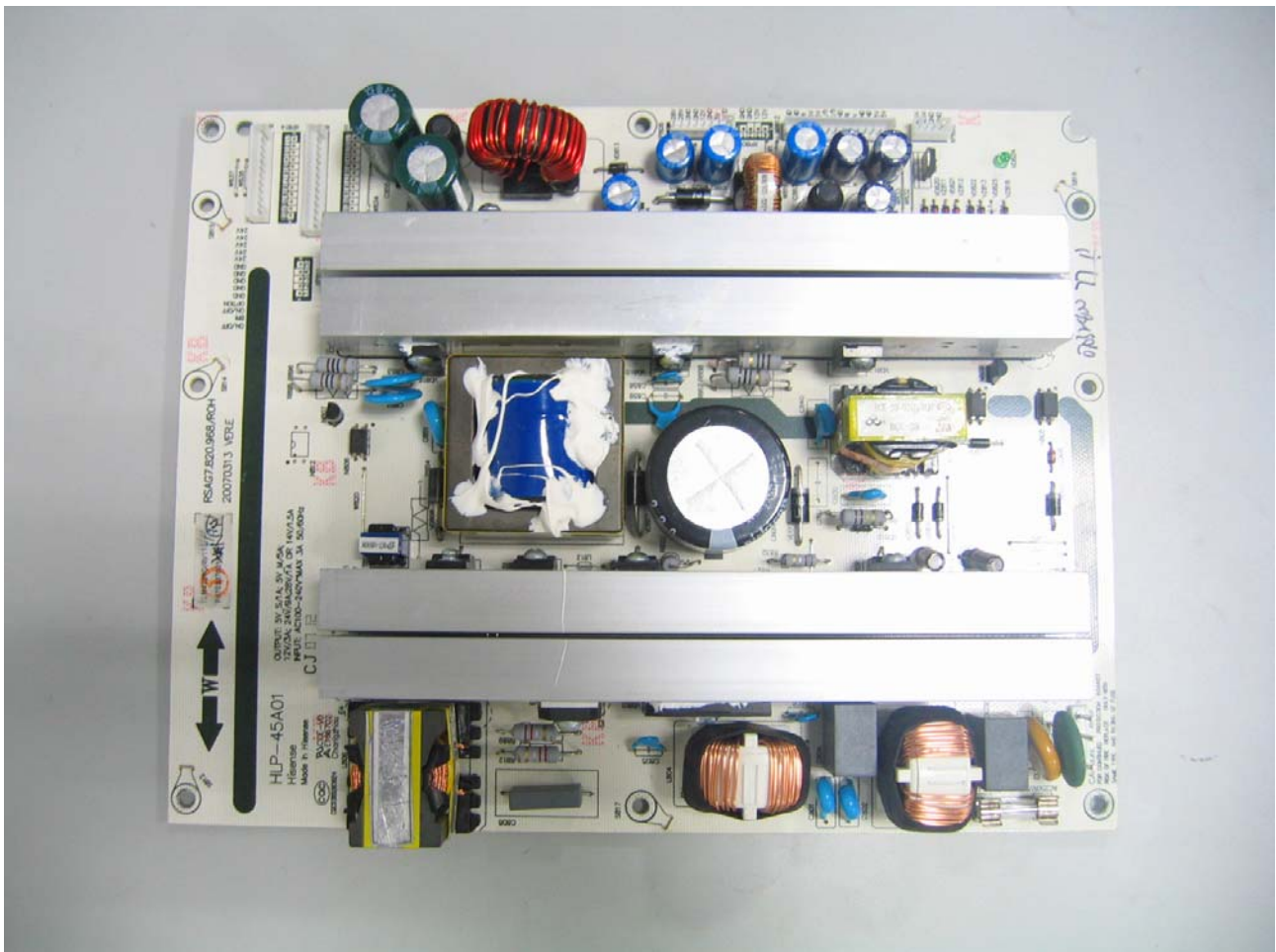


4-2 Power board of LCD3733EU

POWER BOARD



4-3 Power board of LCD4033NEU/LCD4233EU



5. Service Mode And Adjustment

Use the remote control, first open **MAIN MENU** with **MENU** button, and choose **SOUND** with the **CHANNEL UP/DOWN** button, then choose the **BALANCE** with **VOLUME UP**, while Balance value is 0, press 0、5、3、2,you can enter factory menu.

Fac. Menu

Factory Menu

White Balance
Auto Test
Auto Calibration
LOGO
OSD Language
Country
Option
Factory Init
Test Pattern
Version:

White Balance

R DRV	10
G DRV	10
B DRV	10
R CUT	137
G CUT	140
B CUT	138
BRIGHT_H	80
CONTRAST_H	80
BRIGHT_L	40
CONTRAST_L	40

Auto Calibration

Auto Color	
Color Temp.	Standard
RED COLOR	137
GREEN COLOR	140
BLUE COLOR	138

LOGO

NULL

WELCOME

Option

SOURCE	TV
BRIGHT 0	10
BRIGHT 50	100
BRIGHT 100	135
CONTRAST 0	60
CONTRAST 50	125
CONTRAST 100	155
TOFAC	M
HDMI Cable	Standard

Factory Init

QingDao
HuangDao
Guiyang
Hungary
France
Austria
CLEAR PROTECTLY
CLEAR UNPROTECTLY

Test Pattern

BLUE

Version

Version:
LCD3733EU_VER1.00.20070619
Panel Type:
LG 32 (1366*768)
FLASH :
PS25LV040

Design Menu
Picture Mode
Sound Mode
Sound Settings
Power Save
PIP Option
EMI
MOVESHARPNESS
LipSync

Picture Mode

Standard	Brightness	50
	Contrast	50
	Colour	50
Bright	Brightness	60
	Contrast	60
	Colour	55
Soft	Brightness	45
	Contrast	45
	Colour	45

Sound Mode

Standard	120Hz	12
	500Hz	10
	1.5KHz	11
	5KHz	8
	10KHz	15
Music	120Hz	19
	500Hz	11
	1.5KHz	12
	5KHz	14
	10KHz	20
Speech	120Hz	4
	500Hz	10
	1.5KHz	12
	5KHz	7
	10KHz	5

Sound Settings

VOLUME 0	128
VOLUME 1	79
VOLUME 20	36
VOLUME 40	31
VOLUME 100	17
TVPRE SCALER	2
VOLUME SCALER	0

6. Software Updating

6-1、 Updating Tool

- You can update the software through a special tool (show as below)



6-2、 Software Updating Operation

1、 Connect the Debug board to the TV use VGA interface, then connect the Debug board to the computer, just as the pictures showing.

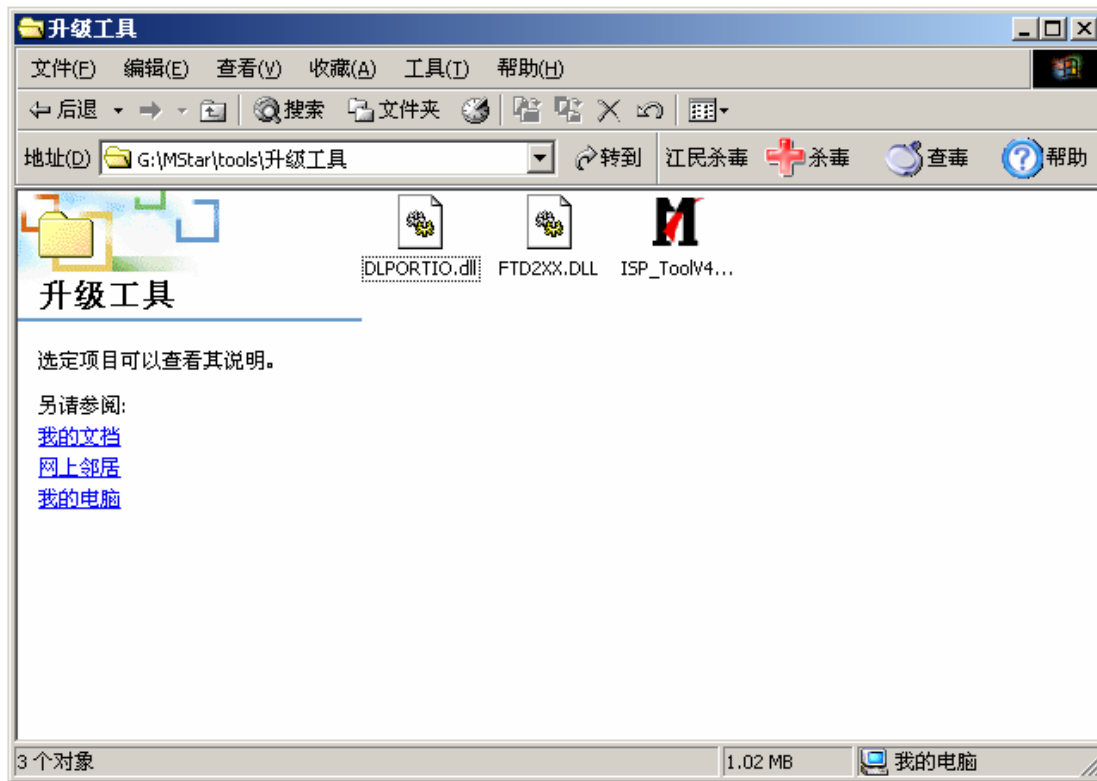


2. Set the ISP_TOOL4.0.9 -----only for the first time update.

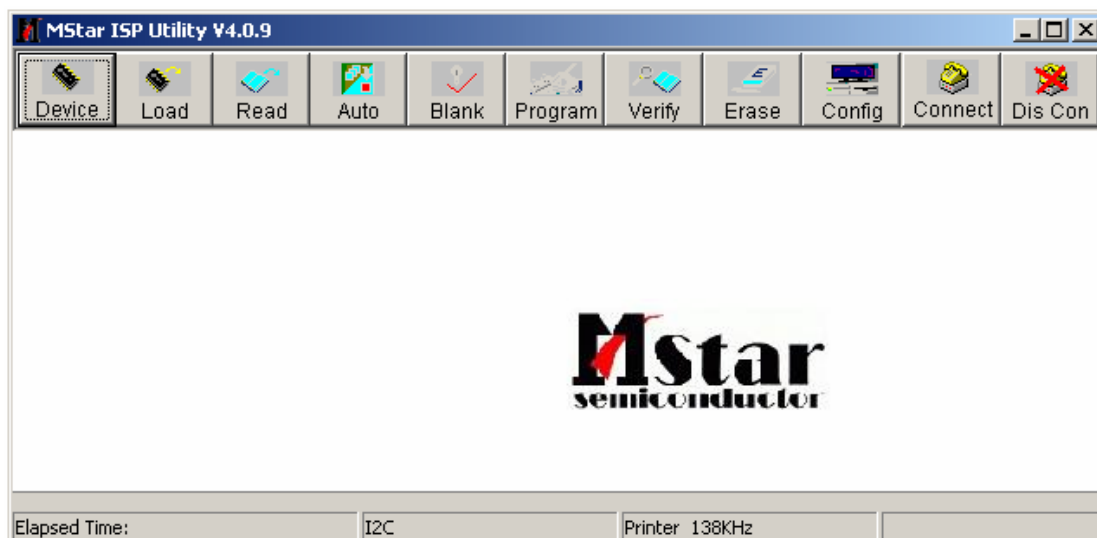
DLPORTIO.dll and FTD2XX.DLL must be in the same folder

1) Find the folder where the ISP_TOOL4.0.9 lies in.

Note: DLPORTIO.dll and FTD2XX.DLL must be in the same folder.

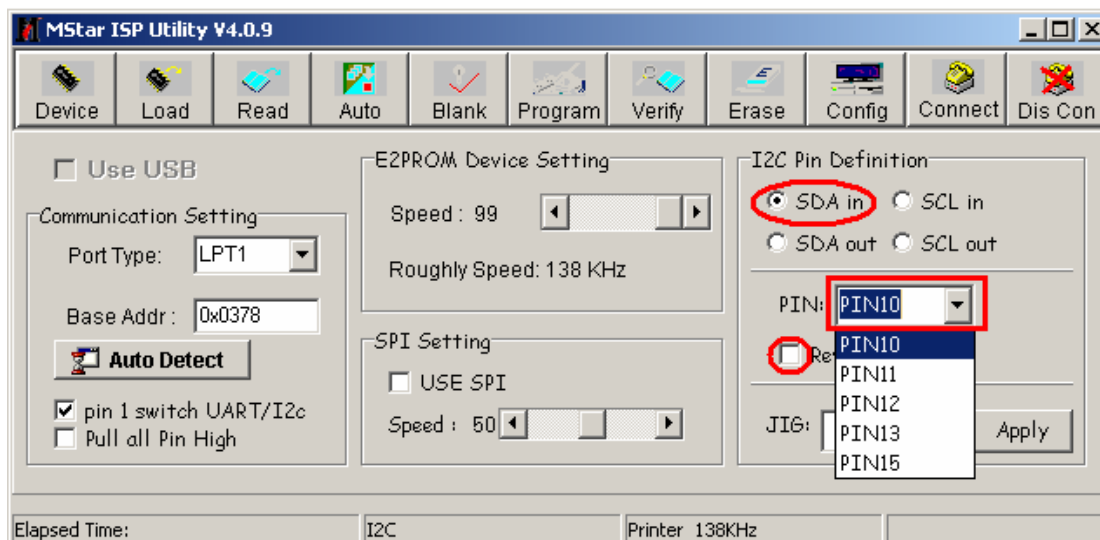
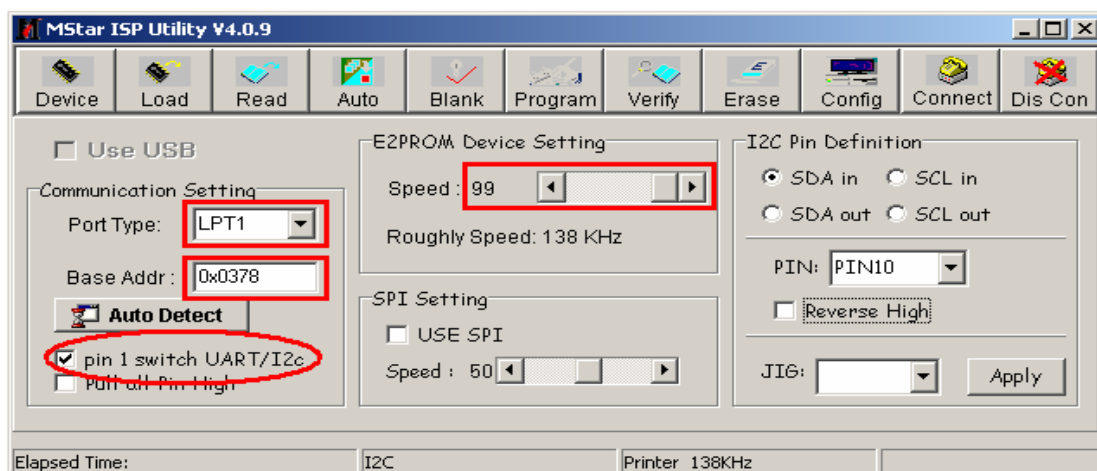
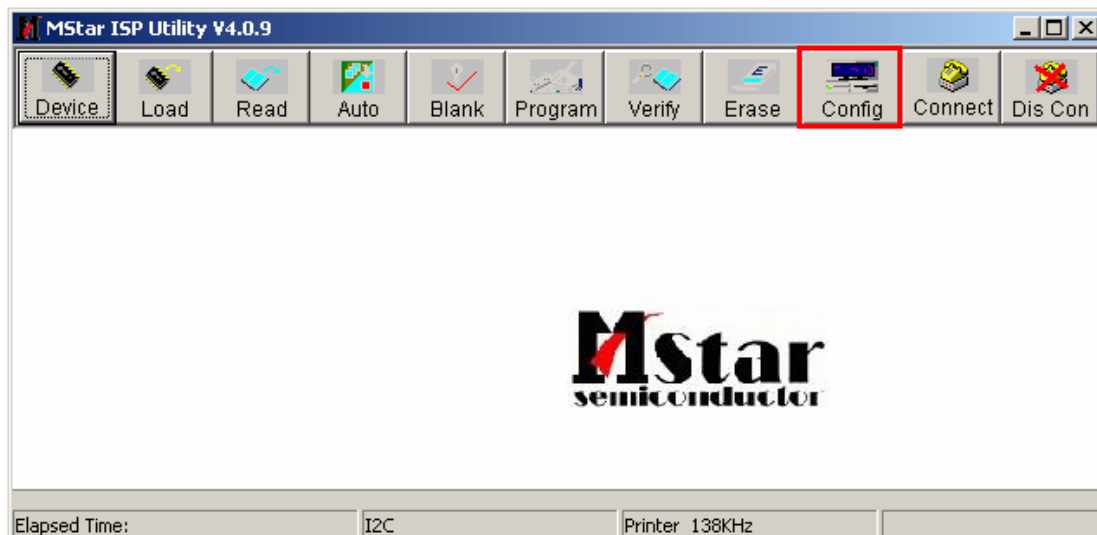


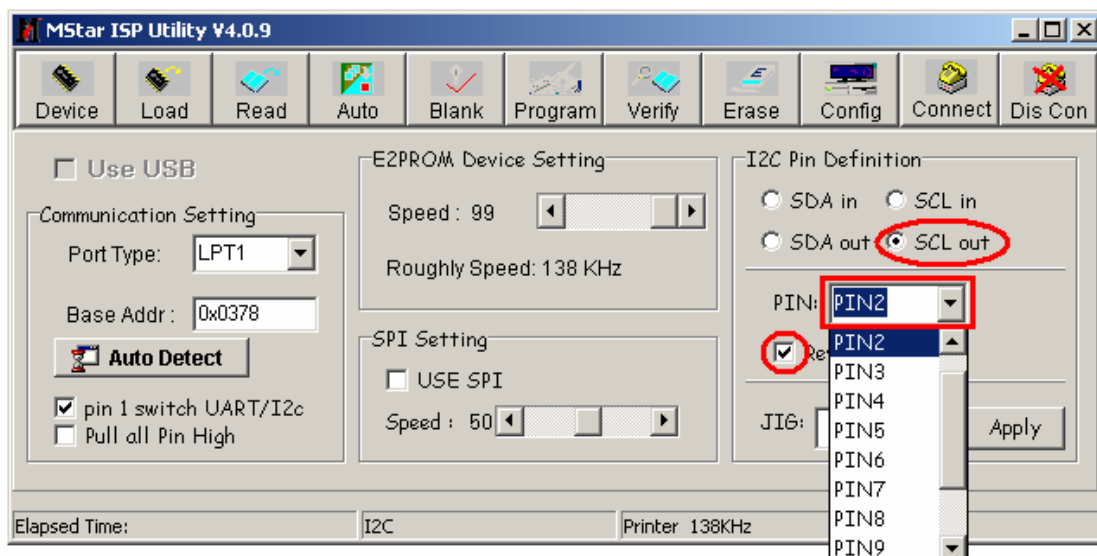
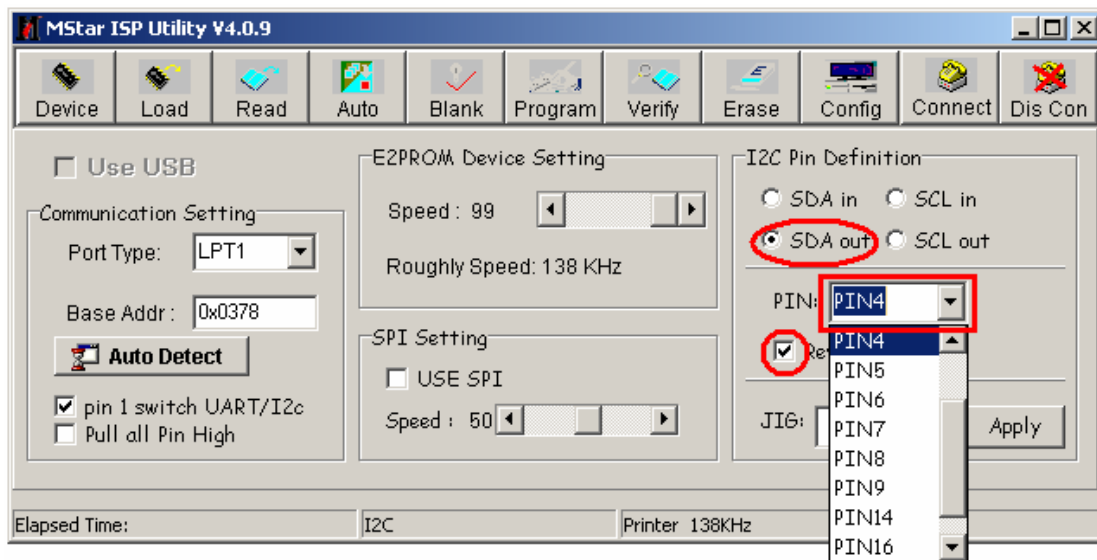
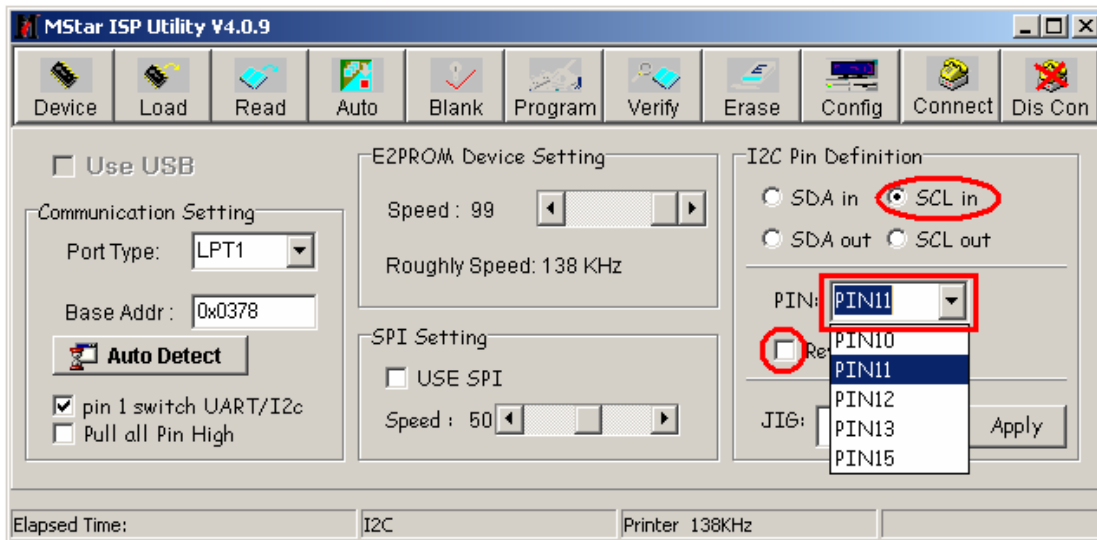
2) Double click the ISP_TOOL4.0.9 icon, and then a dialog will show as below.



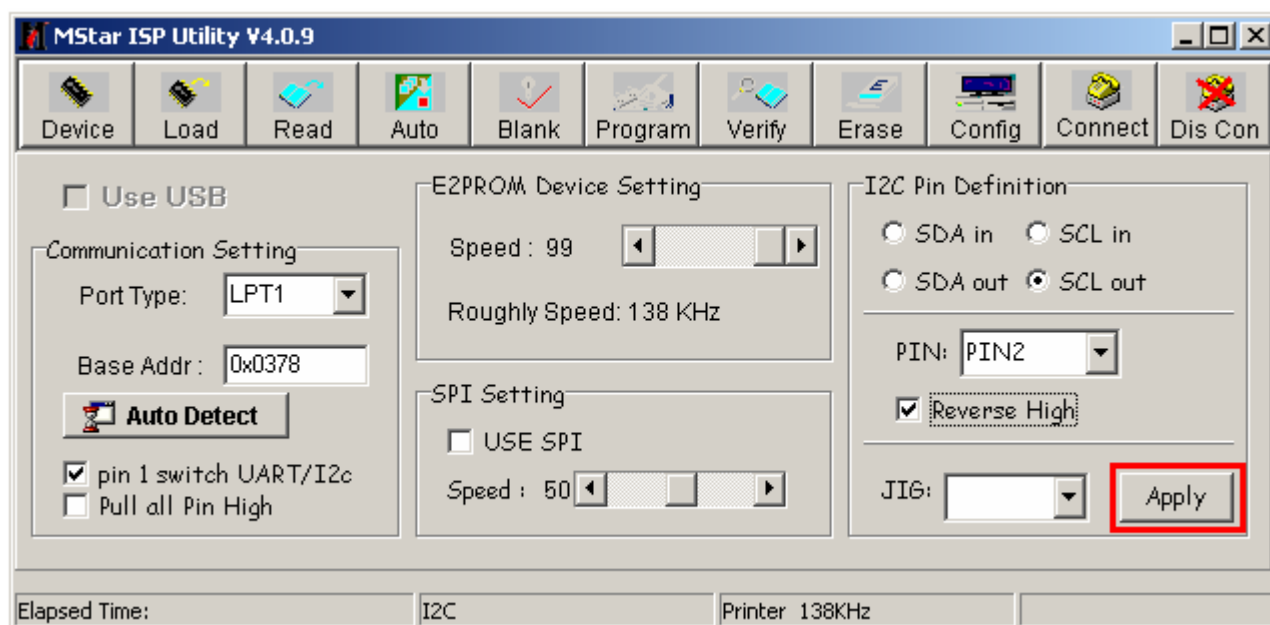
3) Click the **Config** button. And then a dialog will show as below.

You should set the **Config** like what the picture shows.



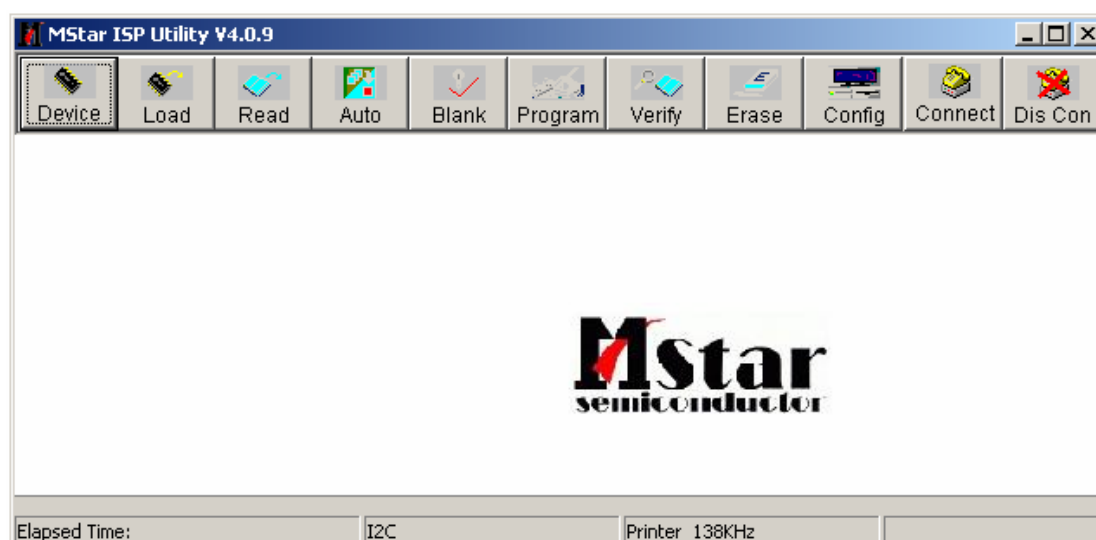


4) After you have finished all above, you should click the Apply button to complete the configuration.

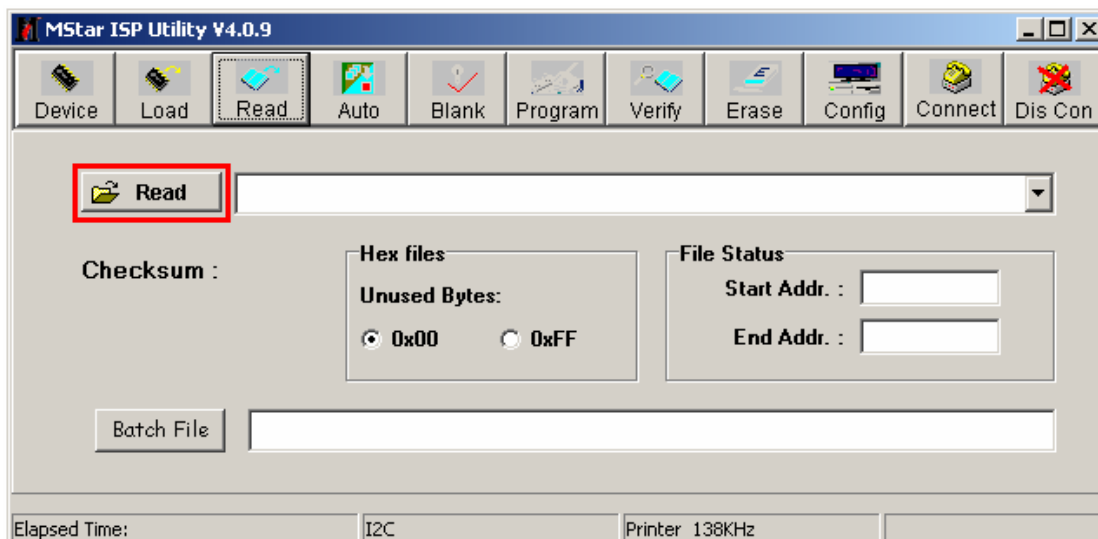
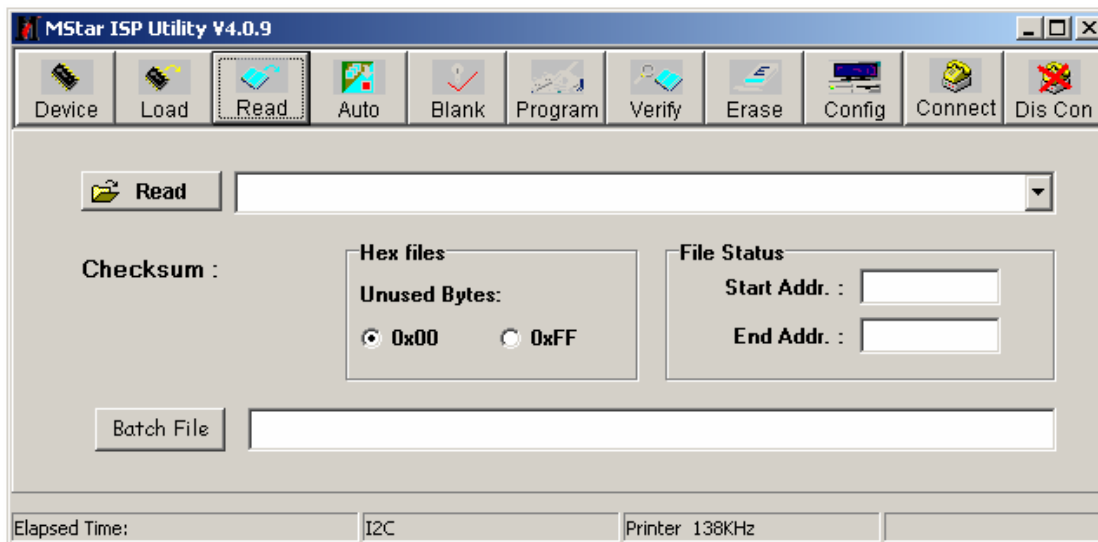
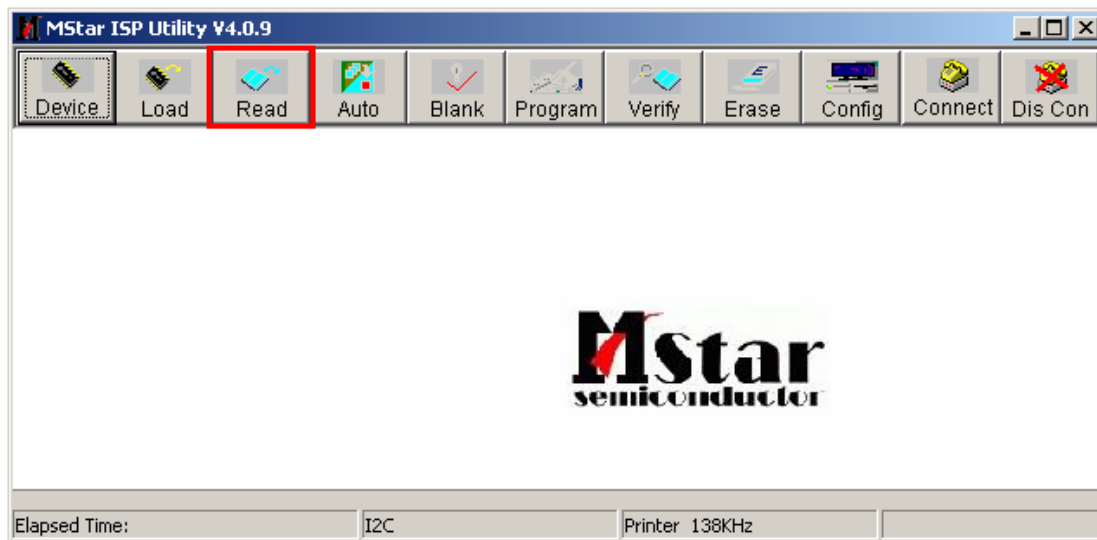


3. Turn on the TV, then we can update.

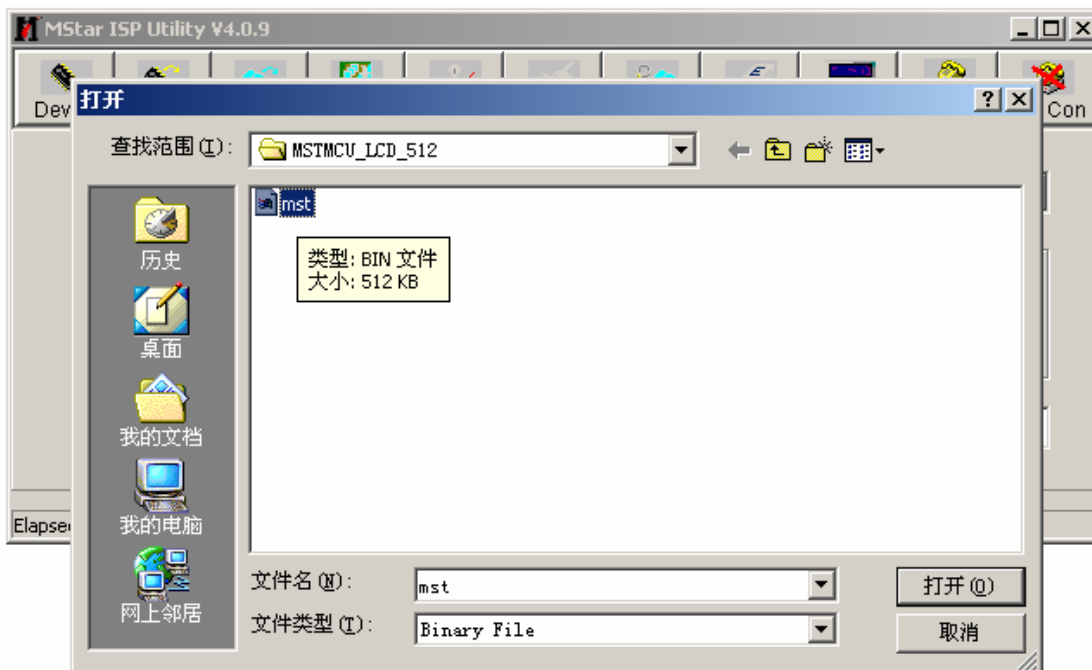
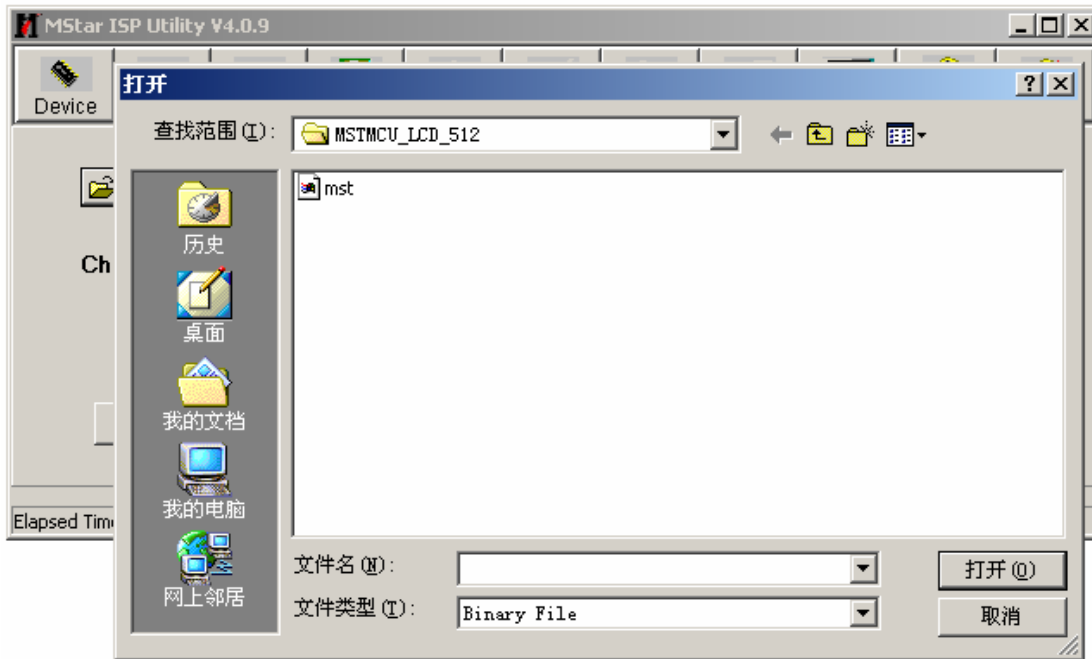
4. Double click the **ISP_TOOL4.0.9** icon, and then a dialog will show as below.



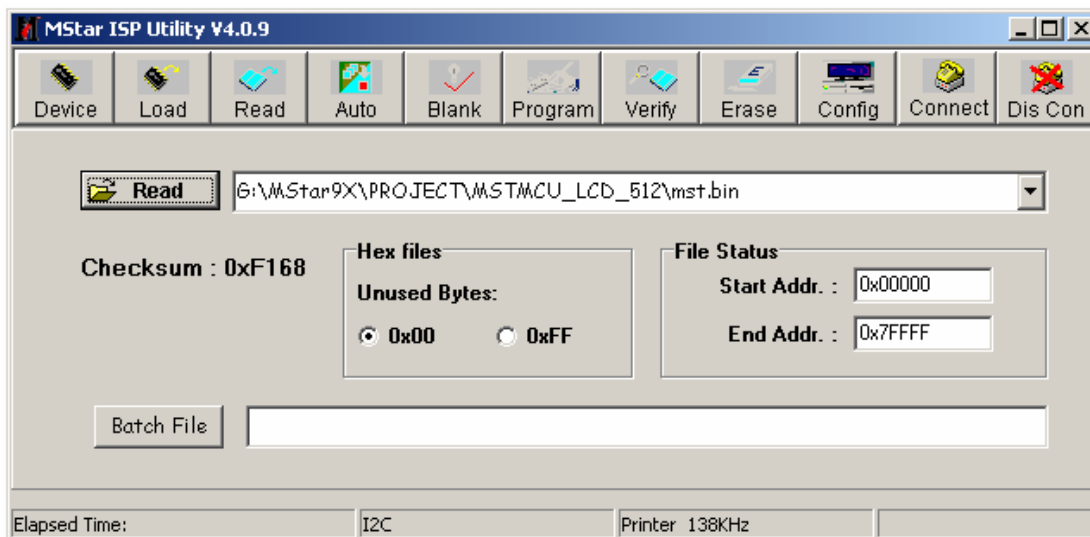
5. Click the **Read** button. And then do as shown below.



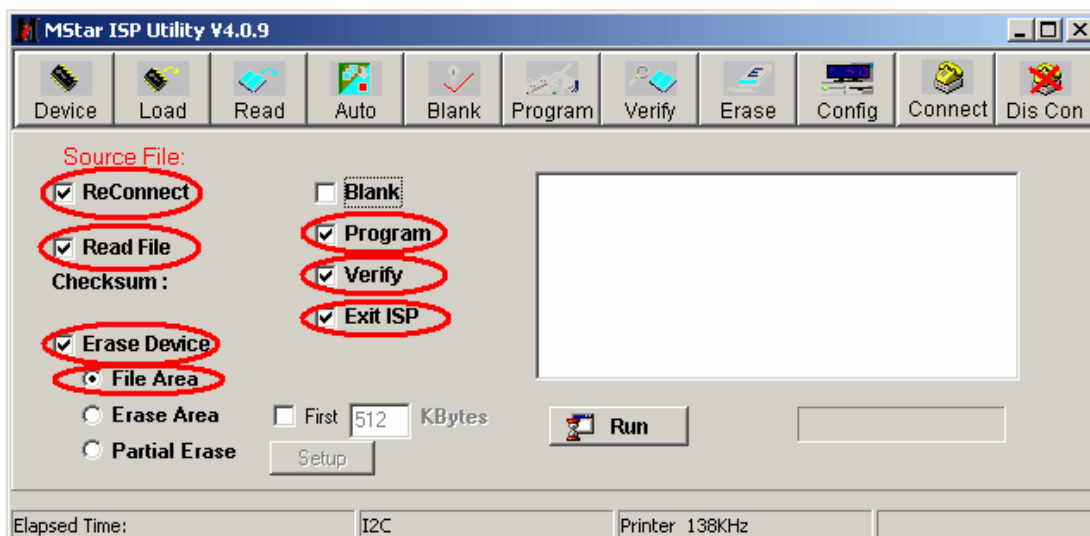
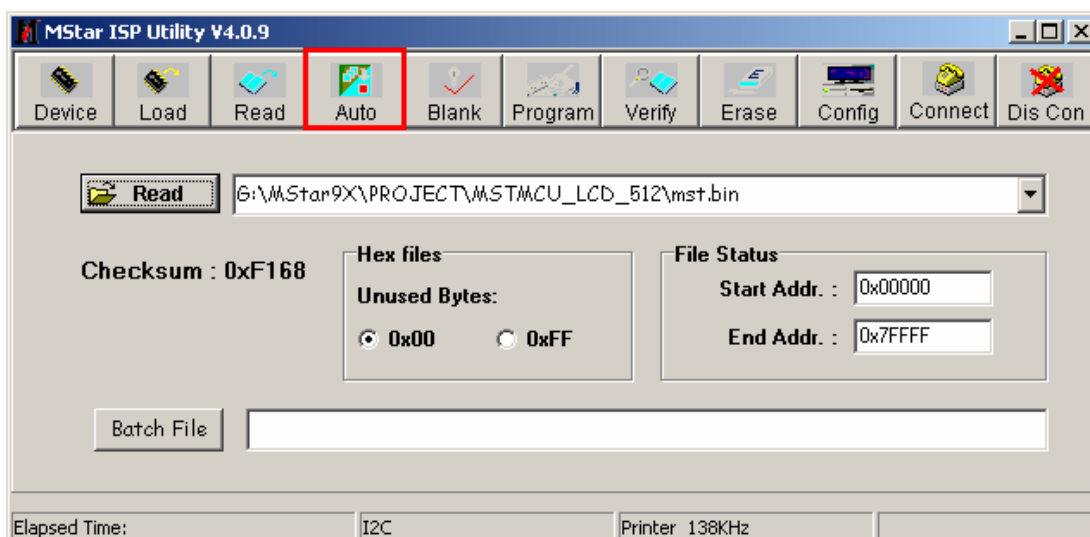
6. Find the update file in your computer.

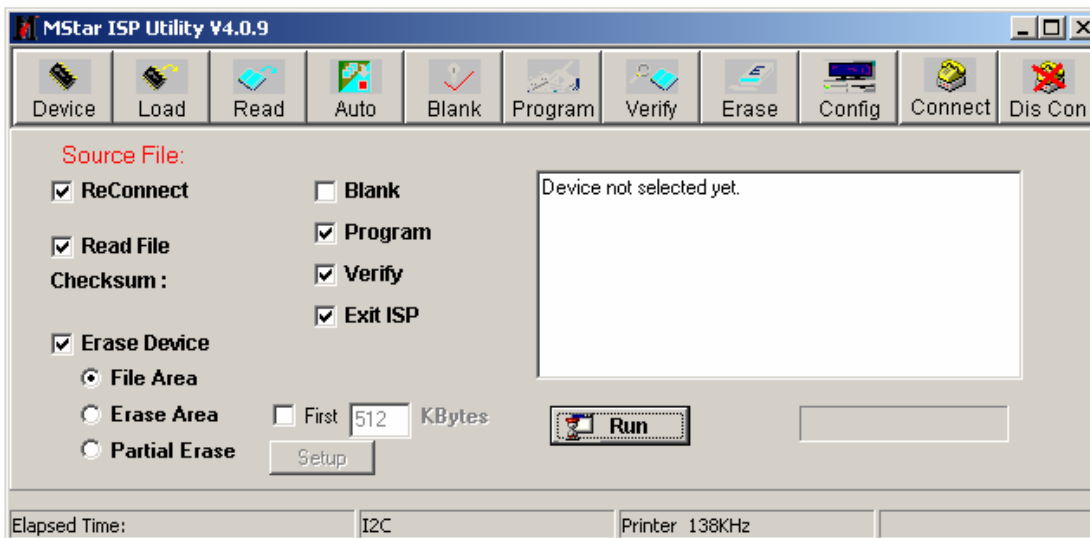
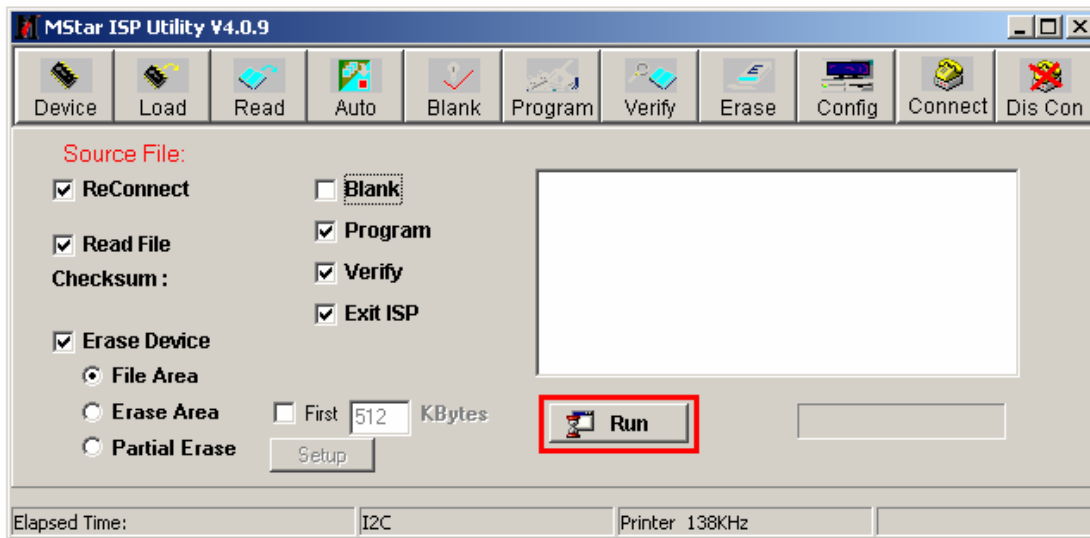


7. Double click the update file. A dialog will show as below.

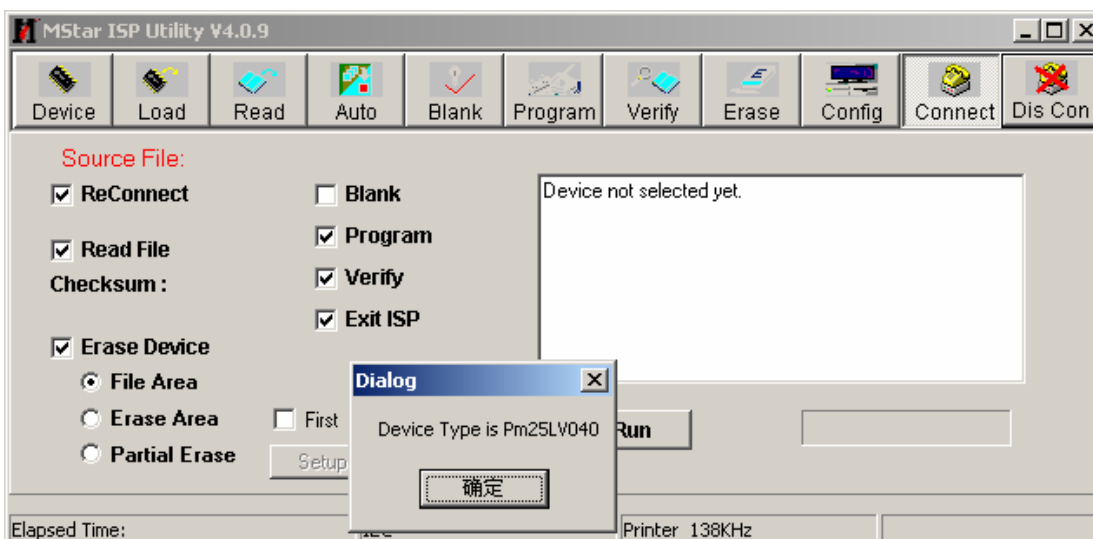


8. Click the **Auto** button. And then do as shown below.

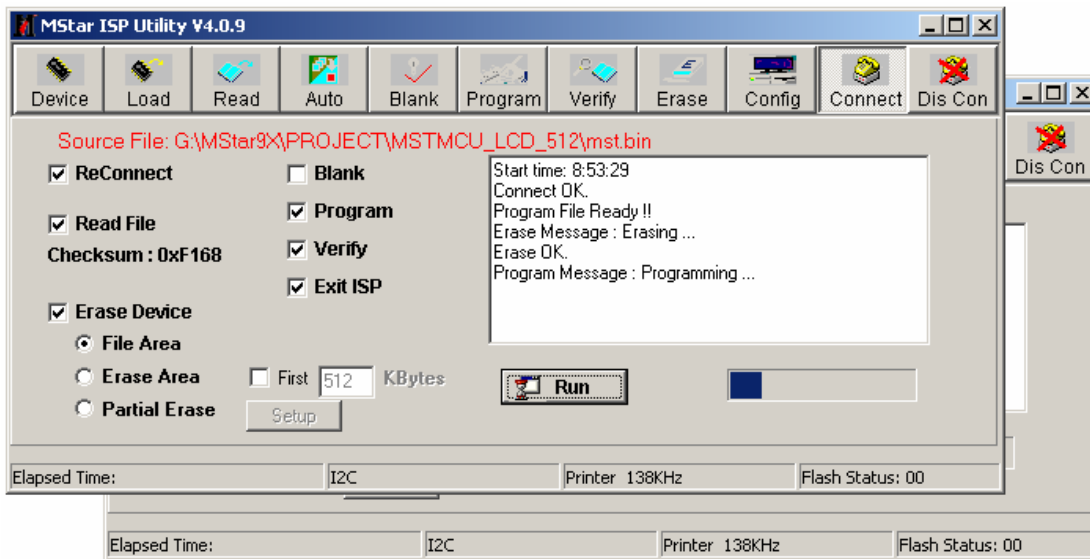




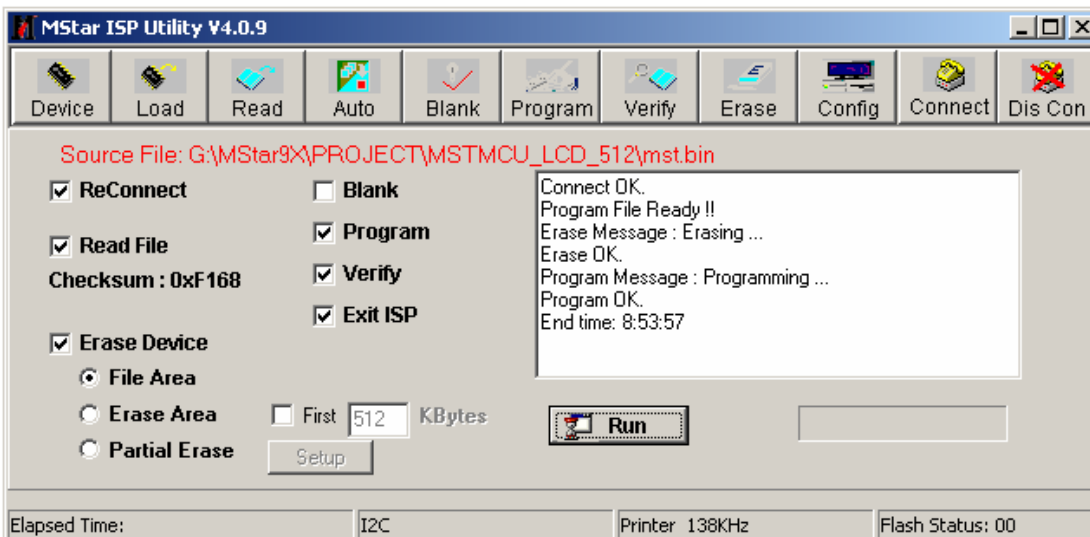
9. Click the **Connect** button. And then do as shown below.



10. Click the **Run** button.



11. When the update is finished, a dialog will show as below.



7.Bill Of Materials

No.	Position	NAME	TYPE
1	C194 C195 C196 C197 C292 C348	capacitor	CD110-16V-470u-M
2	C295	capacitor	CD110-25V-470U-M
3	L10 L11	Inductor	LGB0606-100u-J
4	D9	IC	CW574CS
5	Z1	filter	HS9453
6	Z2	filter	HS6257
7	U4(EMC)	TUNER	TDQ-6FT/W126H
8	XP3	SOCKET	TJC10-3A
9	XP17	SOCKET	TJC10-4A
10	XP4	SOCKET	TJC10-5A
11	XP18	SOCKET	TJC10-6A
12	XP26	SOCKET	TJC10-8A
13	XP10 XP24	SOCKET	TJC3-4A
14	XP1	SOCKET	A2600WS0-2X9P
15	XP2	SOCKET	A2600WS0-2X11P
16	XP15	SOCKET	FF-HX19-10
17	P3	SOCKET	DR-15A
18	XS1	AV SOCKET	AV5-LYA
19	XS2	AV SOCKET	AV3-W-Z
20	XS3	S SOCKET	S2
21	XS4	SOCKET	KF0-TX13CB
22	U8	radiator	RSAG5.861.112
23		shield	RSAG7.070.153
24	XP27	SOCKET	TJC10-14A
25		PCB	RSAG7.820.1037
26	R87 R88 R462 R463 R490 R495 R288	Resistor	RC0603JR-07-0R0
27	R89 R84 R105 R208 R249 R481 R486	Resistor	RC0603JR-07-0R0
28	R261 R268 R320 R321 R352 R428 R429	Resistor	RC0603JR-07-0R0
29	R459 R467 R468 L12 L13 R658	Resistor	RC0603JR-07-0R0
30	L14 L15 L16 L17 L18 L23 L26	Resistor	RC0603JR-07-0R0
31	L30 L54 L55 L58 L59 L60	Resistor	RC0603JR-07-0R0
32	C42 C76 L78 L79 L28 R189	Resistor	RC0603JR-07-0R0
33	L21 L20 L19 R414 L61 R370 R371 L77	Resistor	RC0603JR-07-0R0
34	R46 R47 R353 R298 R634 R635	Resistor	RC0603JR-07-0R0
35	R90 R91 R101 R102 R130 R136 R140 R146	Resistor	RC0603JR-07-10R
36	R147 R150 R212 R214 R215 R216 R217	Resistor	RC0603JR-07-10R
37	R326 R342 R327 R328 R378 R379 R380	Resistor	RC0603JR-07-10R
38	R124 R123 R122 R410 R409 R411	Resistor	RC0603JR-07-10R
39	R491	Resistor	RC0603JR-07-33R
40	R104 R125 R152 R338 R339 R340	Resistor	RC0603JR-07-47R
41	R85 R86 R133 R141 R142 R335	Resistor	RC0603JR-07-75R
42	R143 R144 R145 R148 R149 R151 R334	Resistor	RC0603JR-07-75R

43	R115 R114 R113 R417 R407 R336 R343	Resistor	RC0603JR-07-75R
44	R406 R405 R496 R497 R498 C392	Resistor	RC0603JR-07-75R
45	R154 R158 R191 R192 R193 R194	Resistor	RC0603JR-07-100R
46	R196 R197 R200 R201 R202 R203 R230	Resistor	RC0603JR-07-100R
47	R222 R224 R225 R232 R255 R269 R350	Resistor	RC0603JR-07-100R
48	R59 R198 R199 R55 R56 R57 R63 R195	Resistor	RC0603JR-07-100R
49	R218 R220 R221 R256 R469 R472 R231	Resistor	RC0603JR-07-100R
50	R38 R39 R40 R41 R42 R489 R351	Resistor	RC0603JR-07-100R
51	R233	Resistor	RC0603JR-07-150R
52	R98	Resistor	RC0603JR-07-220R
53	R82 R134 R337 R408	Resistor	RC0603JR-07-330R
54	R229	Resistor	RC0603JR-07-390R
55	R103	Resistor	RC0603JR-07-820R
56	R43 R92 R93 R94 R95 R204 R205 R206	Resistor	RC0603JR-07-1K0
57	R207 R209 R210 R211 R251 R258 R311 R323	Resistor	RC0603JR-07-1K0
58	R324 R449 R471 R474 R44 R45 R492	Resistor	RC0603JR-07-1K0
59	C393 C394	Resistor	RC0603JR-07-1K5
60	R65 R157 R444	Resistor	RC0603JR-07-2K2
61	R358 R361	Resistor	RC0603JR-07-3K0
62	R360	Resistor	RC0603JR-07-3K9
63	R68 R69 R70 R71 R457 R184 R185 R186	Resistor	RC0603JR-07-4K7
64	R240 R242 R243 R244 R245 R247	Resistor	RC0603JR-07-4K7
65	R331 R347 R348 R51 R52 R53 R54	Resistor	RC0603JR-07-4K7
66	R349 R442 R446 R453 R454 R639	Resistor	RC0603JR-07-4K7
67	R99	Resistor	RC0603JR-07-5K6
68	R445	Resistor	RC0603JR-07-6K8
69	R227 R228 R415 R416	Resistor	RC0603JR-07-8K2
70	R106 R107 R126 R129 R135 R139 R162	Resistor	RC0603JR-07-10K
71	R612 R631 R616 R619 R60	Resistor	RC0603JR-07-10K
72	R163 R166 R167 R168 R169 R241 R260	Resistor	RC0603JR-07-10K
73	R272 R275 R319 R354 R355 R359 R470	Resistor	RC0603JR-07-10K
74	R2 R6 R15 R16 R164 R165 R318 R476	Resistor	RC0603JR-07-10K
75	R110 R111 R127 R128 R137 R138 R76	Resistor	RC0603JR-07-12K
76	R356 R357	Resistor	RC0603JR-07-12K
77	R458	Resistor	RC0603JR-07-15K
78	R11 R13 R61 R62 R171 R174 R250	Resistor	RC0603JR-07-22K
79	R75 R607	Resistor	RC0603JR-07-22K
80	R277 R278 R280 R281 R161	Resistor	RC0603JR-07-33K
81	R284 R285 R286 R465 R466	Resistor	RC0603JR-07-47K
82	R279 R282	Resistor	RC0603JR-07-56K
83	R83 R96 R295 R296 R273 R274	Resistor	RC0603JR-07-100K
84	R640 R617 R641	Resistor	RC0603JR-07-100K
85	R97	Resistor	RC0603JR-07-680K
86	R226	Resistor	RC0603JR-07-1M0
87	RP18	resistor	YC164JR-07-33R

88	RP10	resistor	YC164JR-07-47R
89	RP11 RP12 RP13 RP14	resistor	YC164JR-07-100R
90	RP2 RP3 RP4 RP5 RP6 RP7 RP8 RP9	resistor	YC164JR-07-4K7
91	C360	Capacitor	CC0603JRNPO9BN470
92	C53 C60 C61 C62 C169 C170	Capacitor	CC0603JRNPO9BN220
93	C147 C148 C149 C150 C283 C284	Capacitor	CC0603JRNPO9BN101
94	C68 C171 C220 C225 C227	Capacitor	CC0603JRNPO9BN391
95	C72 C85 C86 C91 C92 C83 C84 C350	Capacitor	CC0603JRNPO9BN561
96	C351	Capacitor	CC0603JRNPO9BN561
97	C65	Capacitor	CC0603KRX7R9BB102
98	C40 C64 C88 C277 C279	Capacitor	CC0603KRX7R9BB102
99	C312 C416 C67 C66	Capacitor	CC0603KRX7R9BB102
100	C49	Capacitor	CC0603KRX7R9BB152
101	C43 C44 C45 C46 C47 C48 C152 C154	Capacitor	CC0603KRX7R9BB103
102	C157 C158 C159 C160 C161 C162 C163 C164	Capacitor	CC0603KRX7R9BB103
103	C165 C166 C167 C414 C155 C156 C636	Capacitor	CC0603KRX7R9BB103
104	C63 C87 C90 C93 C94 C97 C98 C315	Capacitor	CC0603KRX7R7BB473
105	C316 C317 C318 C319 C320	Capacitor	CC0603KRX7R7BB473
106	C383 C382 C384 C378 C379 C380	Capacitor	CC0603KRX7R7BB473
107	C32 C34 C35 C36 C37 C38 C54 C55	Capacitor	CC0603KRX7R7BB104
108	C56 C57 C58 C106 C107 C109 C282	Capacitor	CC0603KRX7R7BB104
109	C110 C111 C112 C113 C114 C115 C116 C117	Capacitor	CC0603KRX7R7BB104
110	C118 C119 C120 C121 C122 C123 C124 C125	Capacitor	CC0603KRX7R7BB104
111	C146 C177 C180 C181 C182 C186 C187 C188	Capacitor	CC0603KRX7R7BB104
112	C189 C190 C191 C192 C200 C201 C205 C206	Capacitor	CC0603KRX7R7BB104
113	C207 C208 C209 C210 C211 C212 C213 C214	Capacitor	CC0603KRX7R7BB104
114	C215 C216 C217 C218 C219 C221 C222 C223	Capacitor	CC0603KRX7R7BB104
115	C224 C226 C228 C229 C230 C231 C232 C233	Capacitor	CC0603KRX7R7BB104
116	C234 C235 C236 C237 C238 C239 C258	Capacitor	CC0603KRX7R7BB104
117	C291 C308 C309	Capacitor	CC0603KRX7R7BB104
118	C310 C345 C346 C446 C59	Capacitor	CC0603KRX7R7BB104
119	C1 C105 C108	Capacitor	CC0603KRX7R7BB104
120	C20 C21 C22 C23 C24 C25 C26 C27	Capacitor	CC0603KRX7R7BB104
121	C28 C29 C30 C31 C19 C421 C359	Capacitor	CC0603KRX7R7BB104
122	C50	Capacitor	CC0603KRX7R6BB224
123	C51 C52	Capacitor	CC0603ZRY5V7BB474
124	C623 C624 C627 C630	Capacitor	CC0805KRX7R9BB104
125	C620 C632 C626	Capacitor	CC0805ZKY5V8BB105
126	C634 C635 C622 C617	Capacitor	CC0805KRX7R7BB224
127	C628 C629 C633	Capacitor	CC0805KRX7R7BB105
128	C39 C127 C130 C134 C135 C136	Capacitor	LMK212BJ225KD-T
129	C137 C138 C139 C140 C141 C142 C185	Capacitor	LMK212BJ225KD-T
130	C453 C4 C7 C6 C9 C132 C133	Capacitor	LMK212BJ225KD-T
131	C243 C245 C248 C249 C250 C251 C252 C253	Capacitor	LMK212BJ475KG-T
132	C254 C333 C356 C357 C358 C178 C179	Capacitor	LMK212BJ475KG-T

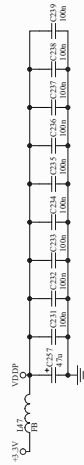
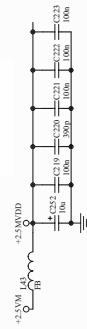
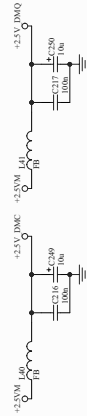
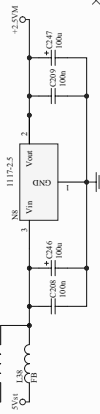
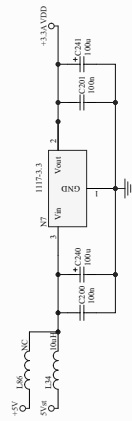
133	C417 C274 C275 C450 C451	Capacitor	LMK212BJ475KG-T
134	C344 C349 C353 C354 C355 C33	Capacitor	LMK212BJ106MG-T
135	C616 C621 C637 C639	Capacitor	CC0805KRX7R9BB104
136	C618 C638	Capacitor	GRM21BR71H474KA88
137	C183 C257 C327 C328 C329 C330 C332 C352	Capacitor	RV3-16V470ME55-R
138	C443 C444 C448 C449 C422 C447	Capacitor	RV2-16V101MF55-R
139	C184 C240 C241 C246 C247 C255 C256 C445	Capacitor	RV2-16V101MF55-R
140	C307	Capacitor	RV3-25V470MF55-R
141	C625 C619 C631 C198	Capacitor	RV2-25V221MG10-R
142	C334 C342	Capacitor	RV2-50V010MD55-R
143	D8 D25 D27 D28 D29 D58 D59	Diode	1N4148W
144	D60 D21	Diode	1N4148W
145	D10 D20 D35 D36 D37	Diode	BAV99LT1
146	D6 D5	Diode	BAV70L
147	D3 D4 D11 D30 D33 D1 D2	Diode	LM3Z5V6T1G
148	D38 D39 D40 D41 D42 D43 D44 D45	Diode	STZ6. 2N
149	D46 D47 D48 D49 D53	Diode	STZ6. 2N
150	D16 D15 D14 D55	Diode	STZ6. 2N
151	D68 D69 D70 D64 D65	Diode	STZ6. 2N
152	D22 D23 D54 D63	Diode	RB060L-40
153	D26	Diode	RB160M-30TR
154	D88	Diode	LM3Z10VT1G
155	V1 V6 V7 V8 V10 V19 V21 V605 V606	Reactor	MMBT3904LT1
156	V20 V23 V28 V31 V34 V35 V36 V30	Reactor	MMBT3904LT1
157	V44	Reactor	MMBT3904LT1
158	V38 V39	Reactor	MMBT3906LT1
159	V16 V29	Reactor	MMBT3906LT1
160	V27	Reactor	2N7002
161	L3 L5 L6 L7 L34 L36 L37 L38	Inductor	BLM18PG181SN1
162	L39 L40 L41 L42 L43 L44 L45 L46	Inductor	BLM18PG181SN1
163	L47 L2 L72	Inductor	BLM18PG181SN1
164	L33 L48 L73 L74 L75	Inductor	BLM31PG121SN1
165	L603 L605 L606	Inductor	BLM31PG121SN1
166	L65	Inductor	SLF10145T-150M2R2-PF
167	L602 L604 L607 L608	Inductor	SLF10145T-330M1R6-PF
168	N10	IC	LD1117A-3. 3
169	N14	IC	AP1520S
170	U6	IC	SPX1117M3-5
171	N7 N20	IC	LD1117A-3. 3
172	N8	IC	LD1117A-2. 5
173	N6	IC	IRF7314
174	N5	IC	L7808CD2T-TR
175	U5	IC	TDA9886TS
176	U8	IC	MST9E88L-LF
177	U9	IC	HY5DU281622FTP-5

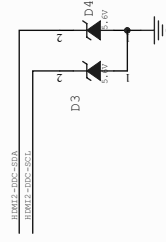
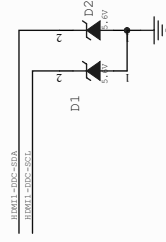
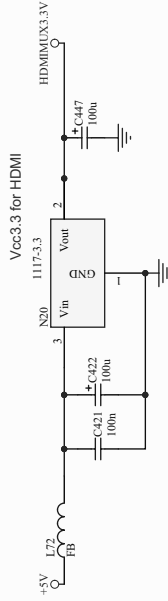
178	U10	IC	EN25B40
179	U11	IC	AT24C32N-10SI-2.7
180	N11	IC	LM833MX
181	P1 P2	Socket	51U019S-339N-A3R
182	N15 N16 N2 N3	IC	CM1213-04MR
183	N13 N4	IC	24LC02B-I/SN
184	U12	IC	AT24C04N-10SU-2.7
185	U14	IC	PACDN044YB5R
186	U7	IC	CS4344CZ
187	Y2	oscillator	JAS14C
188	Y1	oscillator	JAS4K
189	N1	IC	TMDS341A
190	U800	IC	TPA3101D2
191	L32	Inductor	BLM31PG121SN1
192	R700 R701	Resistor	RC0603JR-07-0R0

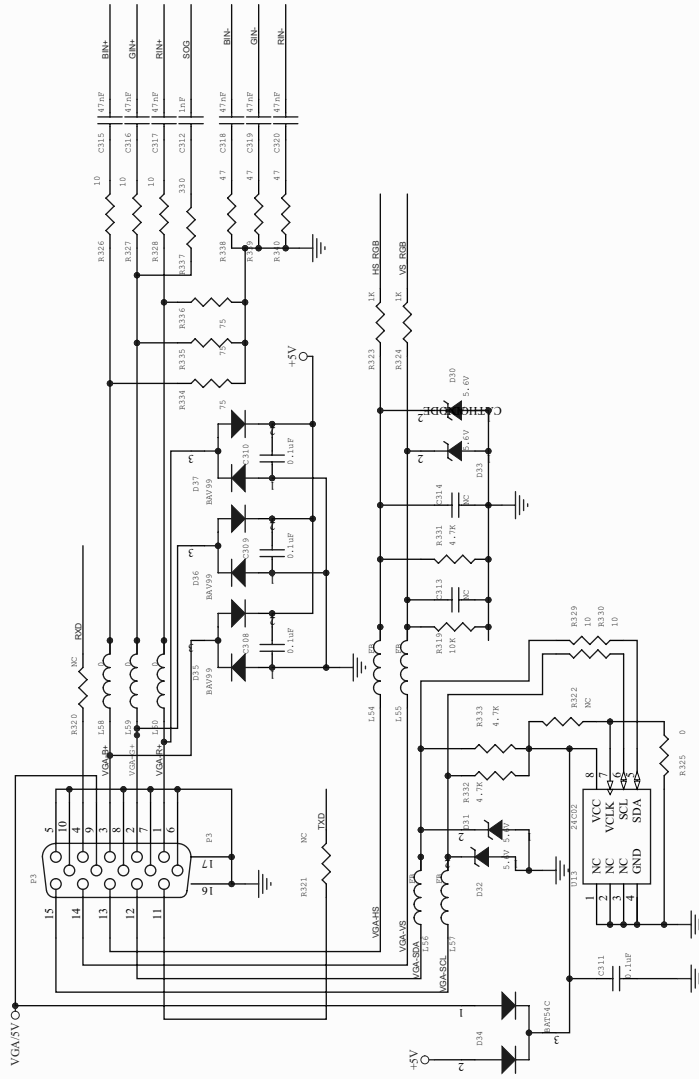
9. Troubleshooting

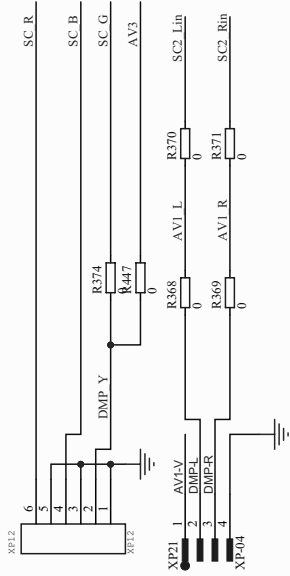
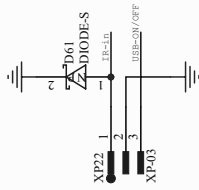
No.	Trouble	Measure
1	Turn on the TV, The LED is red, no display on screen	Replace the main board or updating the software.
2	Turn on the TV, The LED is blue, but no picture or/and no sound	You should replace the main board.
3	In TV state, can not to tuning	You should replace the main board.
4	No teletext	You should replace the main board.
5	No sound	You should replace the main board.
6	can not to updating software	You should replace the main board
7	No reaction with PC	You should replace the main board

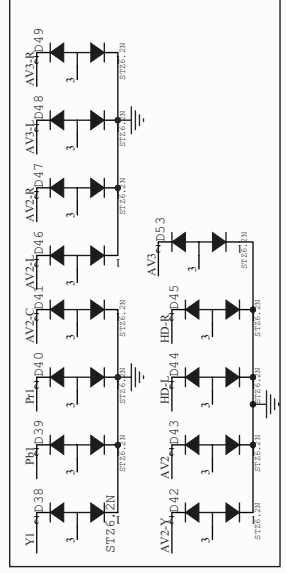
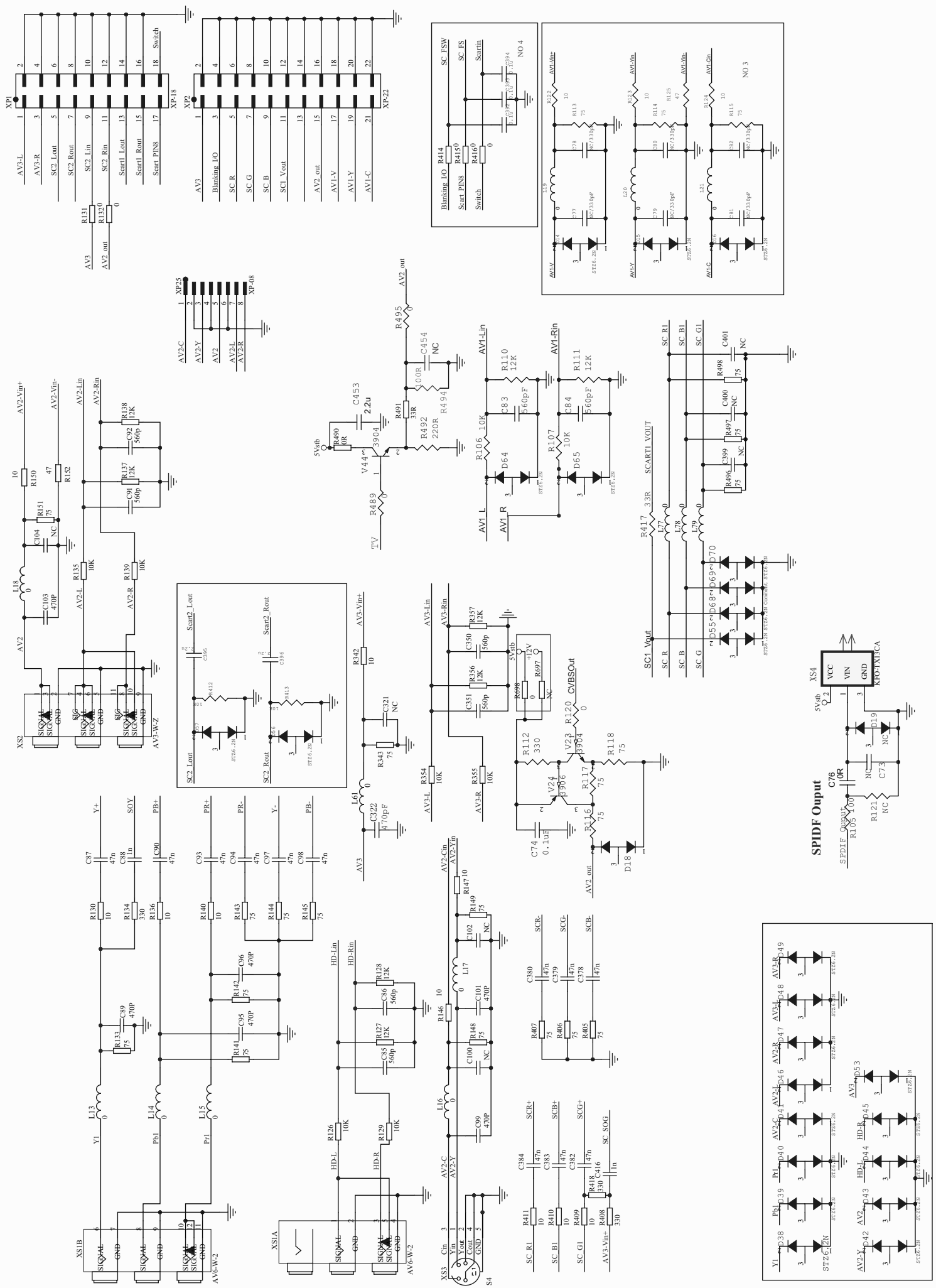
10. Circuit Diagram







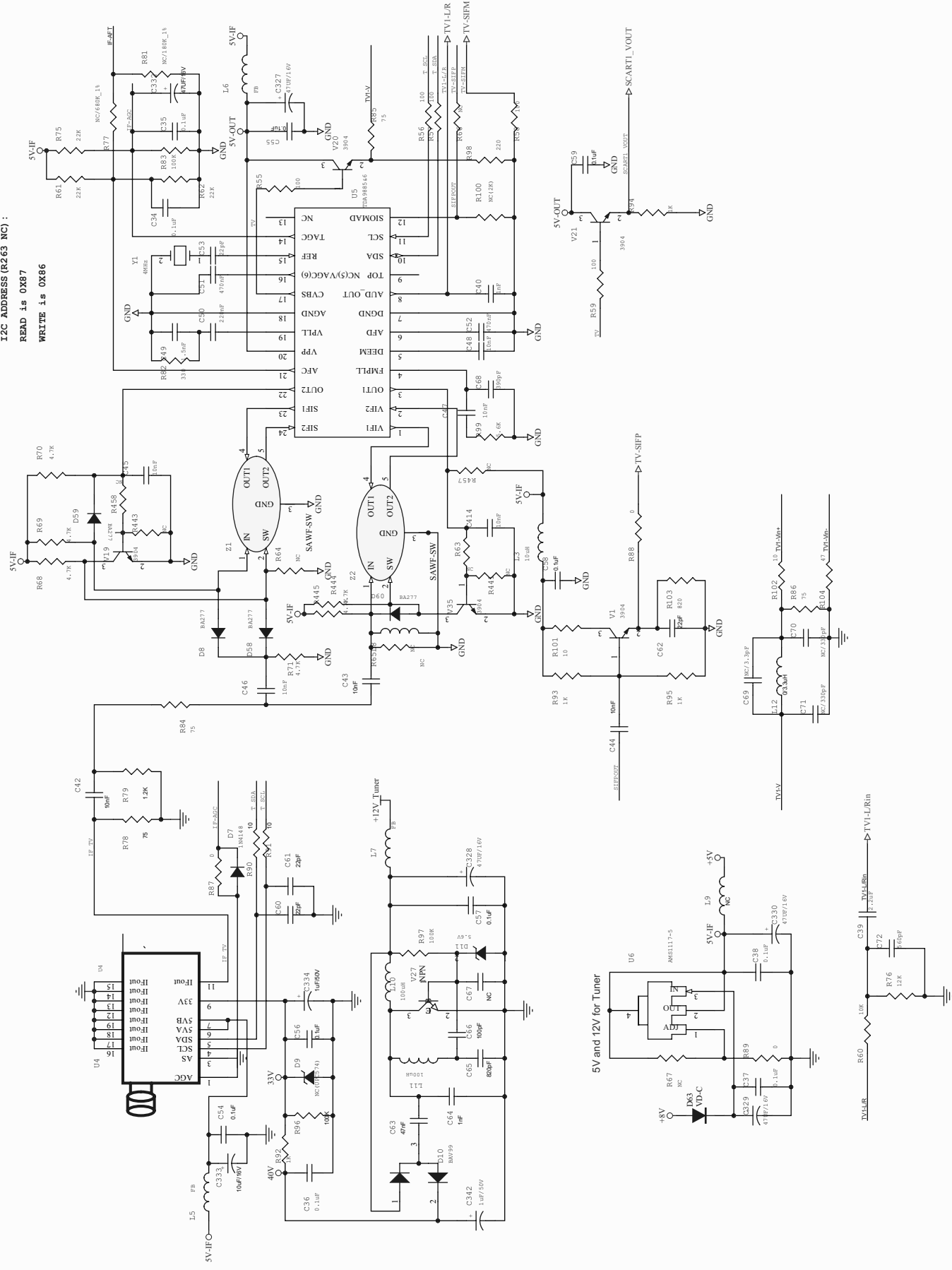


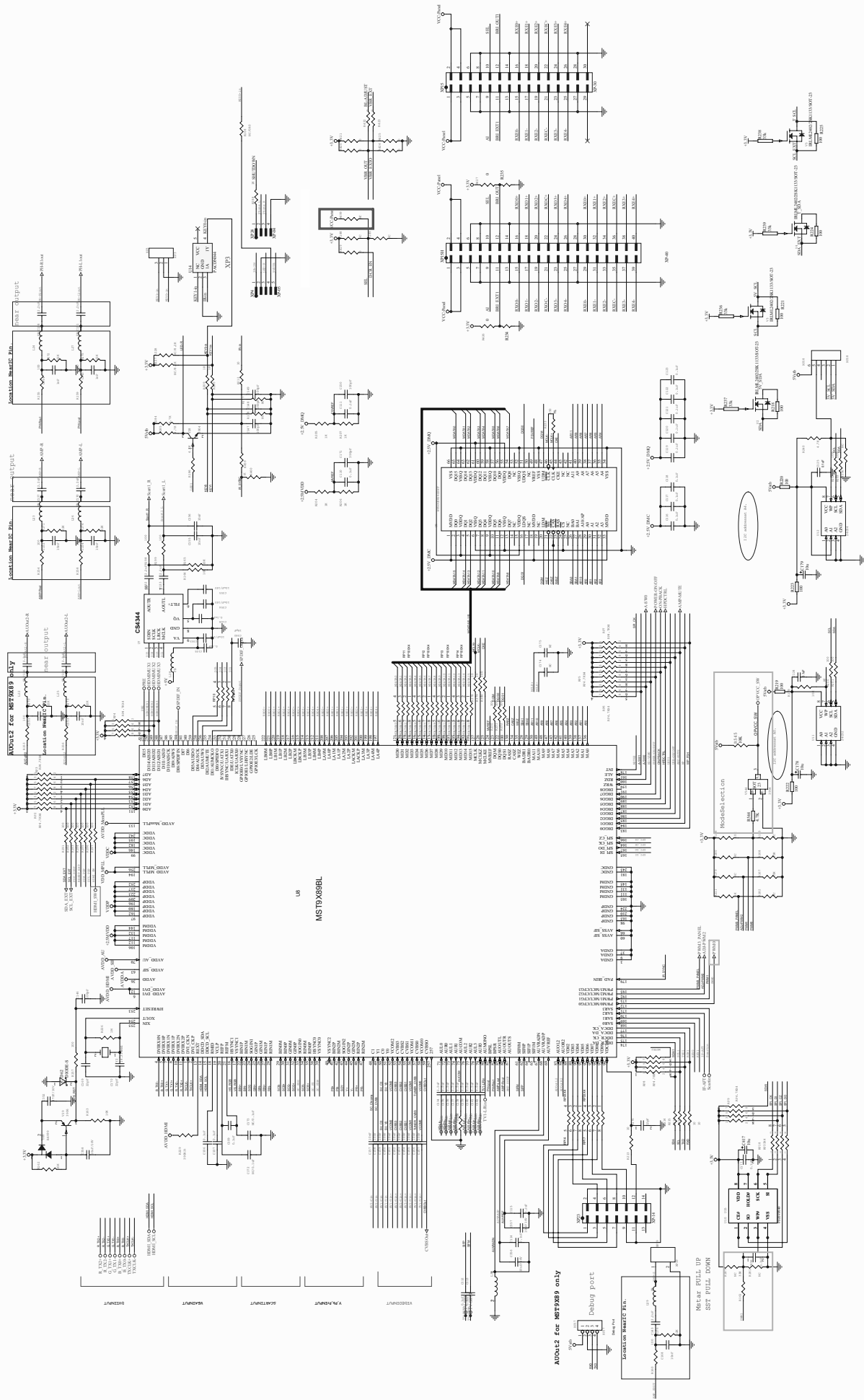


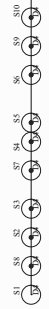
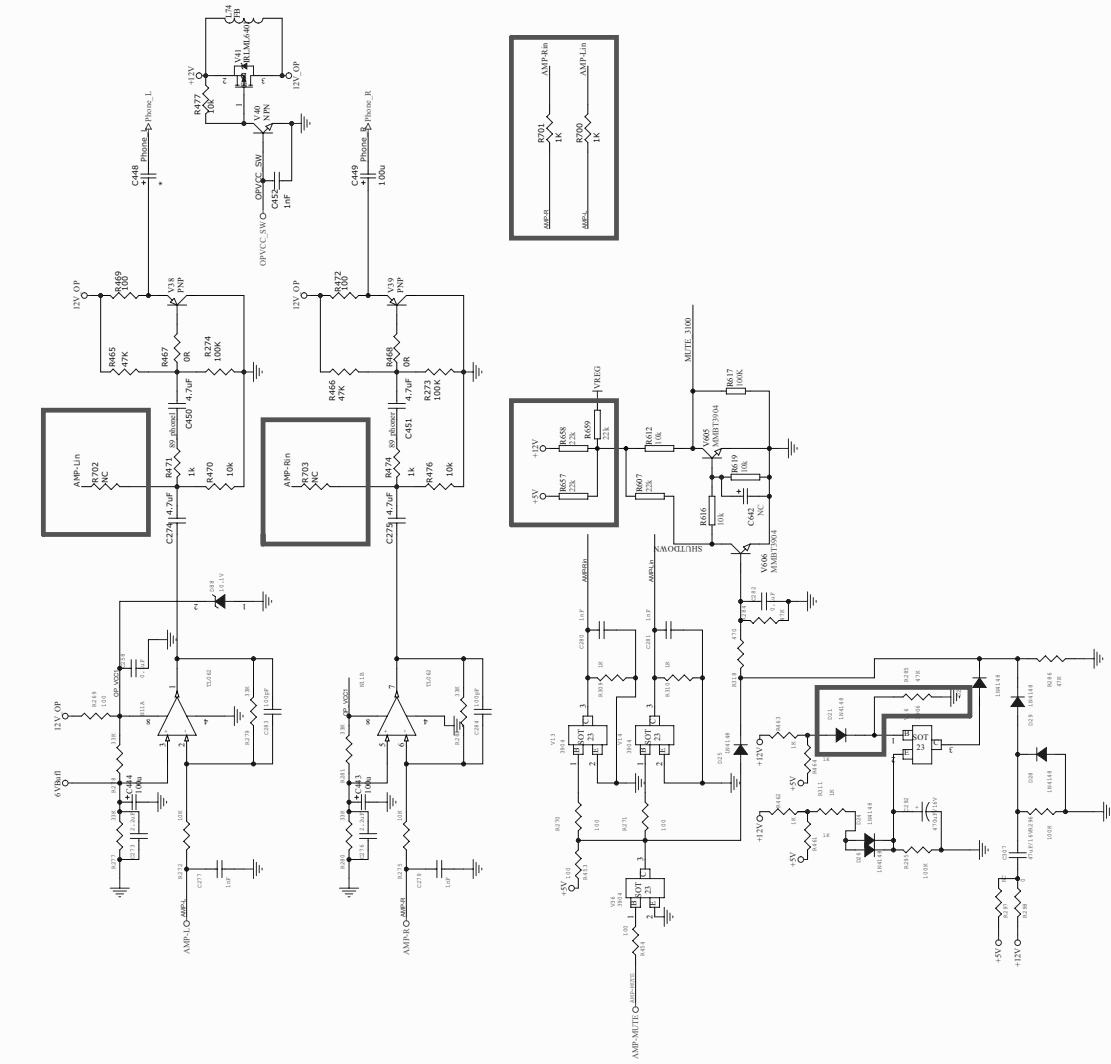
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I2C ADDRESS(R263 NC) :
READ is 0X87
WRITE is 0X86

```







05_DMP
05_DMP.SCH



09_4052
09_4052.SCH



10_TPA3101D
10_TPA3101D.SCH



03_HDMI
03_HDMI.SCH



08_MST(EU)
08_MST(EU).SCH



04_VGA
04_VGA.SCH



07_IF
07_IF.SCH



01_SYS Power
01_SYS Power.SCH



06_AV INPUT(EU)
06_AV INPUT(EU).SCH



02_MST9X89BL POWER
02_MST9X89BL POWER.SCH

