AKIRA

makes life better

Colour TV
Service Manual

CHASSIS: TB1251

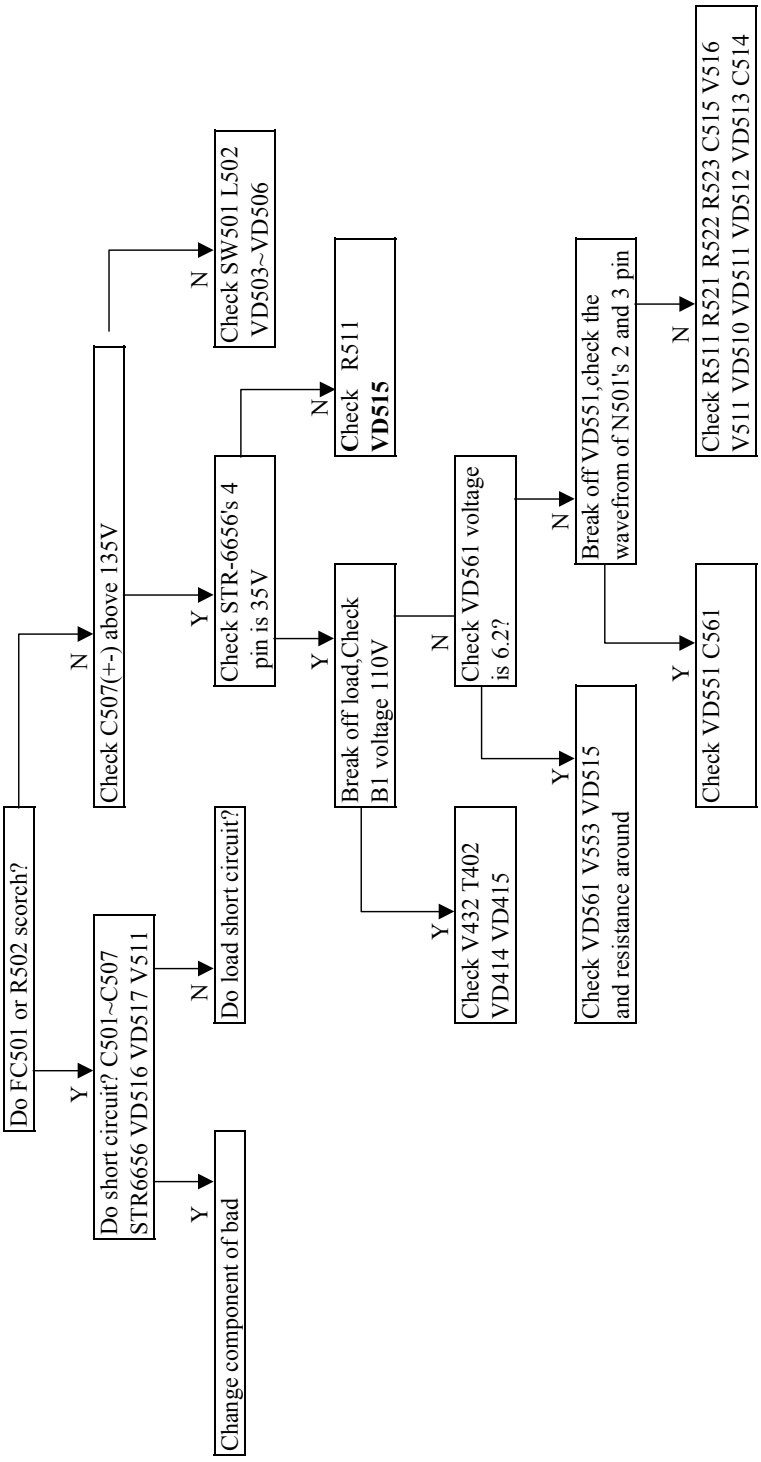
MODEL:
34GHS3YE

CONTENT

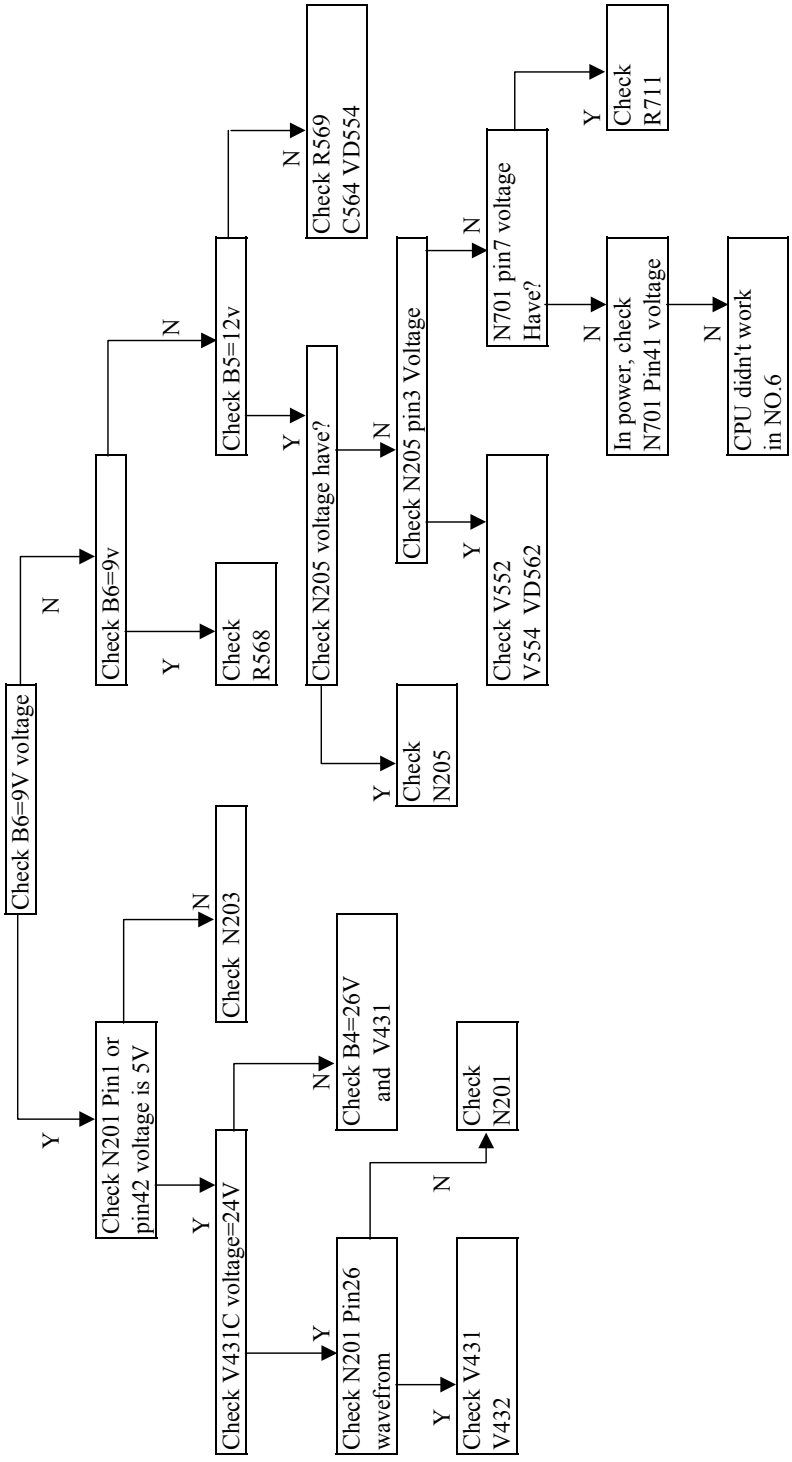
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TYPICAL FAILURE ANALYSE

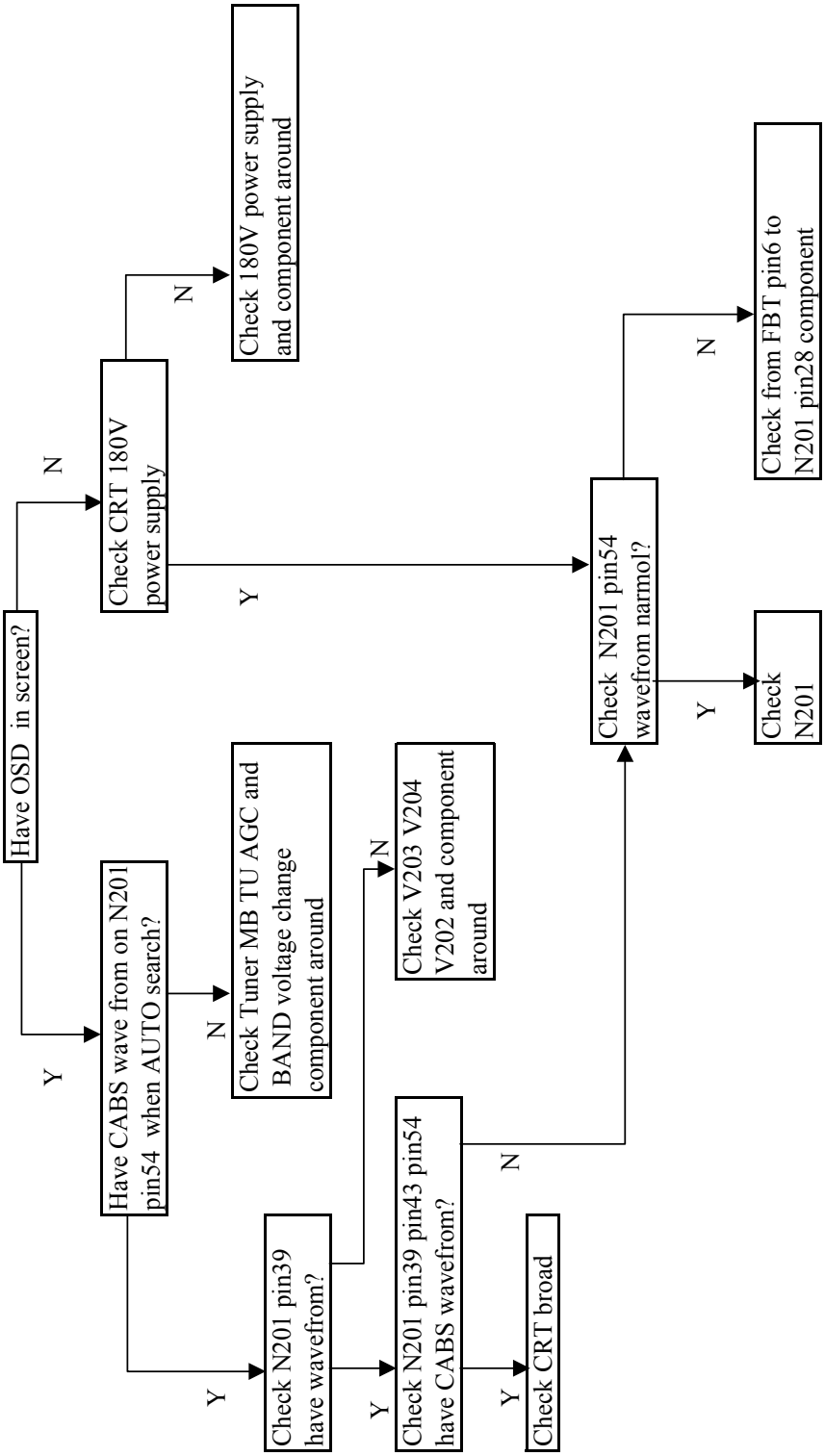
1. No picture and sound
   As power supply, with have B1(130V) and no B1(130V). Check as following:
   a. No B1(130V) voltage



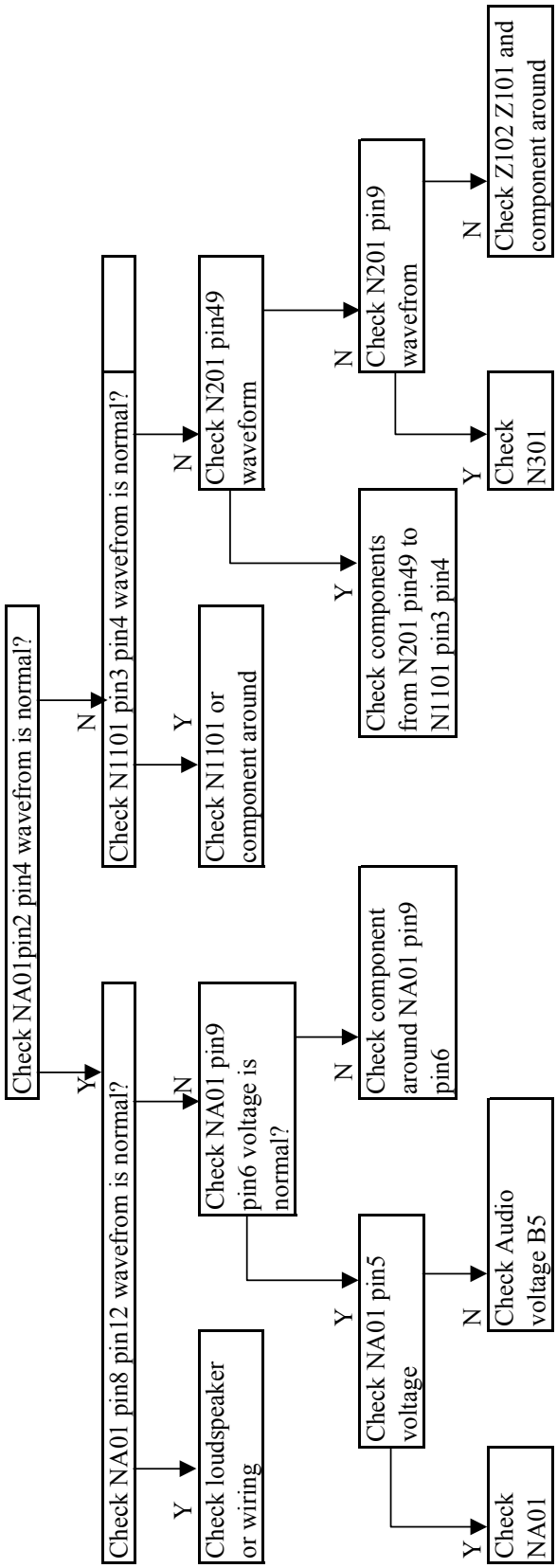
b. B1=110V


Check B6=9V voltage
N
Check B6=9v
Y
Check R568
N
Check B5=12v
Y
Check N205 voltage have?
N
Check N205 pin3 Voltage
N
N701 pin7 voltage Have?
N
In power, check N701 Pin41 voltage
N
CPU didn't work in NO.6
Y
Check R711
N
Check R569 C564 VD554
Y
Check N205
Y
Check V552 V554 VD562
Y
Check N201 Pin1 or pin42 voltage is 5V
N
Check N203
Y
Check V431C voltage=24V
N
Check B4=26V and V431
Y
Check N201 Pin26 wavefrom
N
Check N201
Y
Check V431 V432

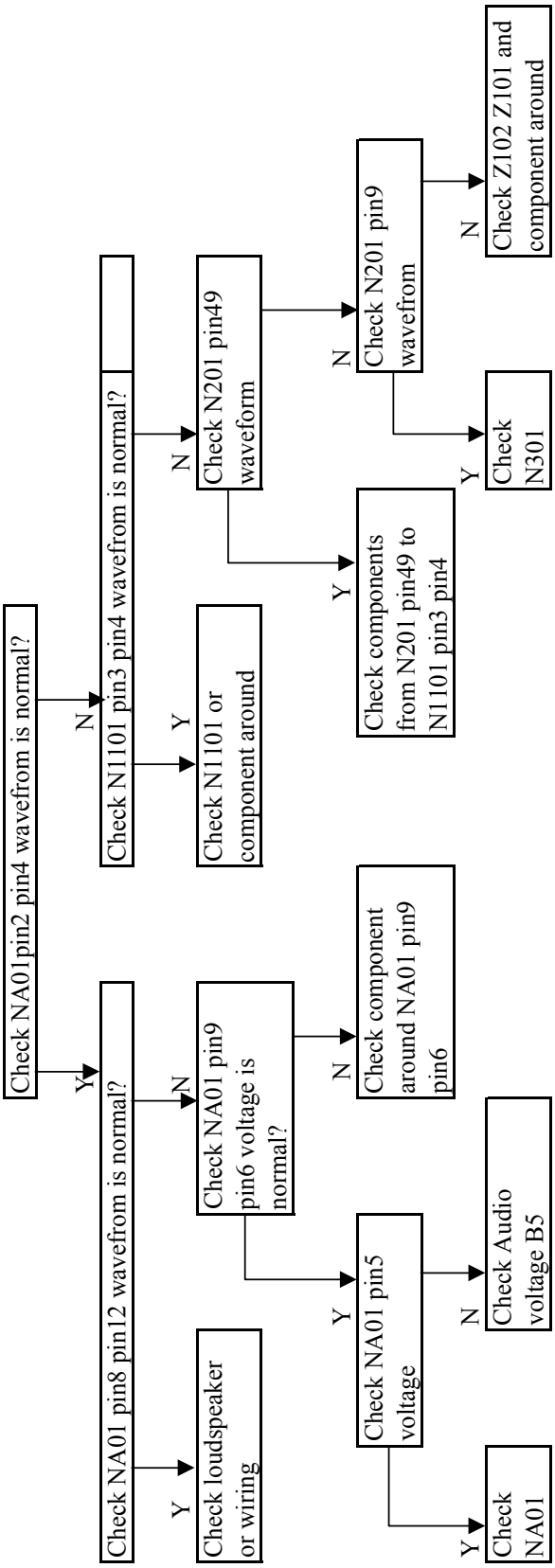
2. No picture but have bright



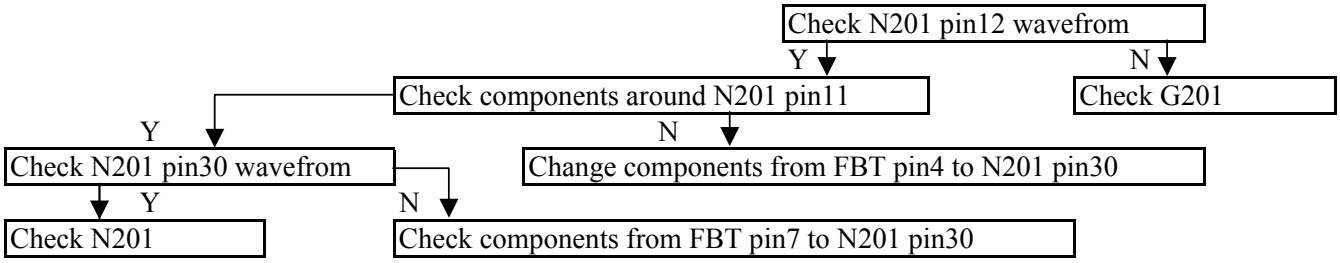
3. No picture, no sound, have bright
First according to “2. No picture but have bright” order repair. If picture is normal, repair sound.



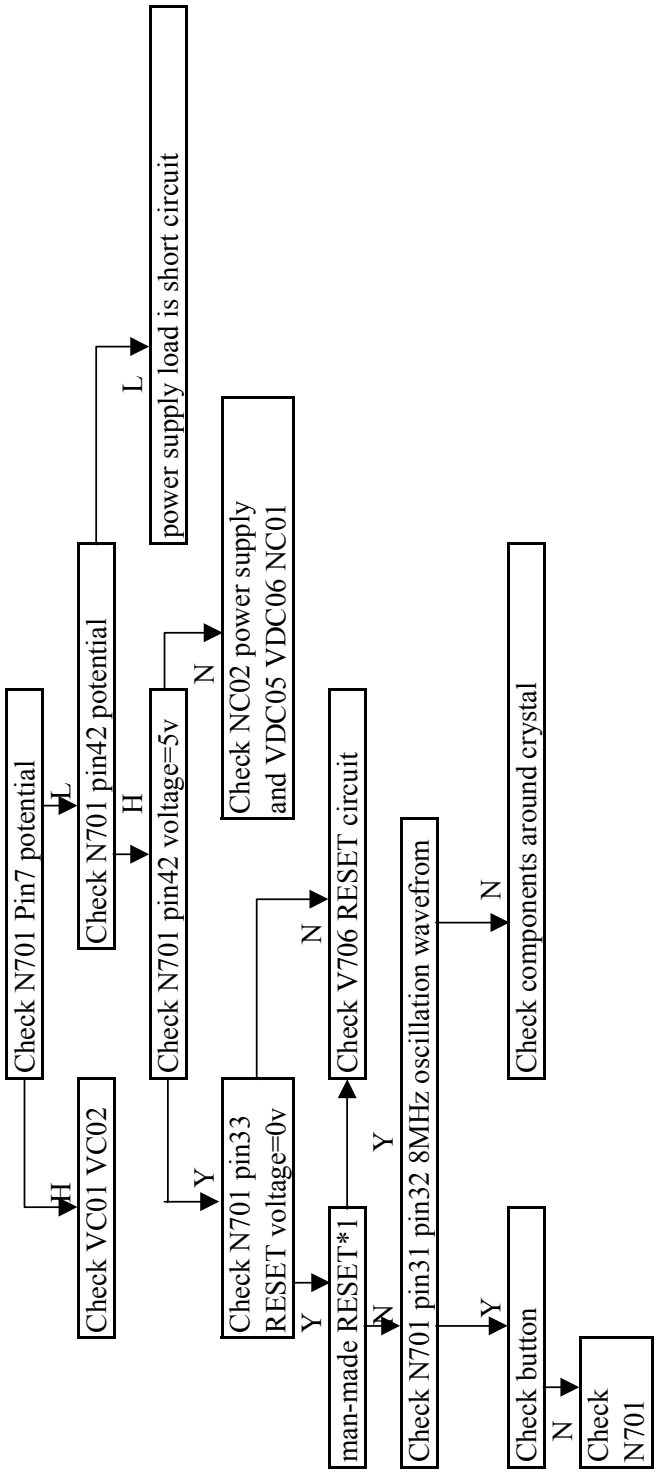
4. Have picture but no sound



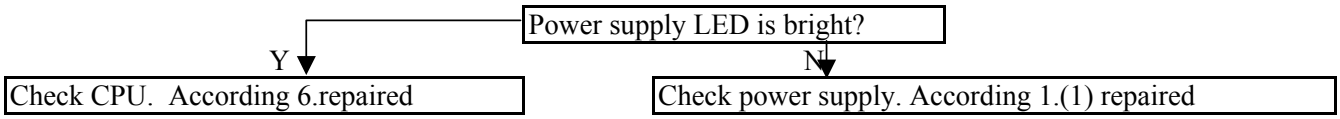
5. No color (PAL)



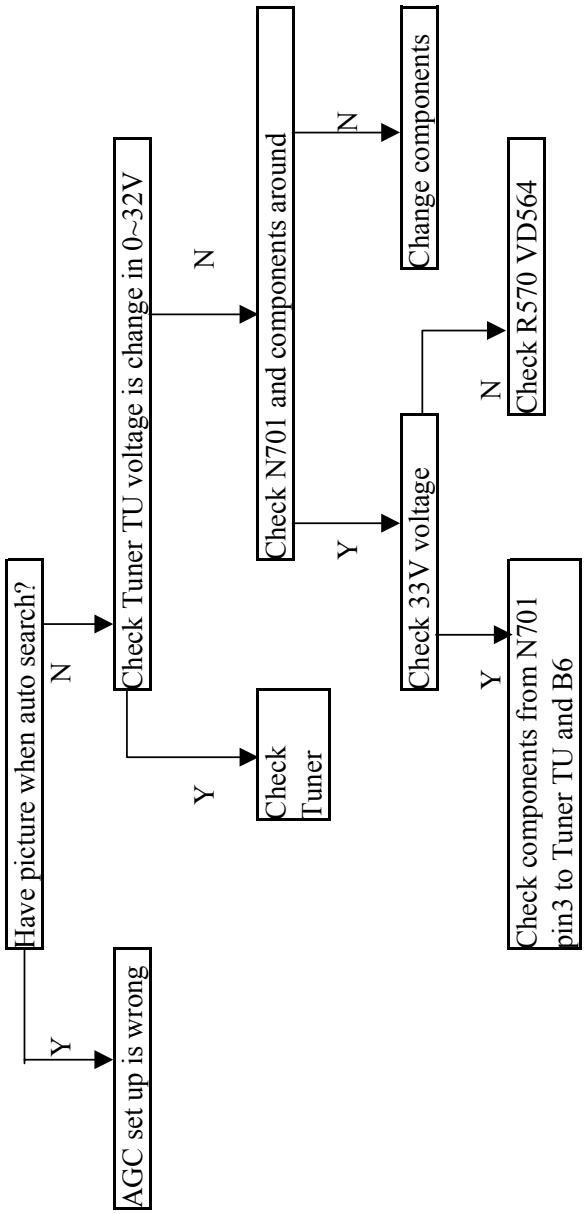
6. CPU didn't work



7. “POWER” button didn’t used, TV didn’t work



8. Programs didn't memory



PINS VOLTAGE (V)

N201 TB1251 PINS VOLTAGE (V)

PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1		13		25		37		49	
2		14		26		38		50	
3		15		27		39		51	
4		16		28		40		52	
5		17		29		41		53	
6		18		30		42		54	
7		19		31		43		55	
8		20		32		44		56	
9		21		33		45			
10		22		34		46			
11		23		35		47			
13		24		36		48			

N701 CPU PINS VOLTAGE (V)

PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1		10		19		28		37	
2		11		20		29		38	
3		12		21		30		39	
4		13		22		31		40	
5		14		23		32		41	
6		15		24		33		42	
7		16		25		34			
8		17		26		35			
9		18		27		36			

N304 TA2136N PINS VOLTAGE (V)

PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1		8		15		22		29	
2		9		16		23		30	
3		10		17		24		31	
4		11		18		25		32	
5		12		19		26			
6		13		20		27			
7		14		21		28			

TA8427		TA8256H		TYN253P		NH01		7809	
PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1		1		1		1		1	12.1
2		2		2		2		2	
3		3		3		3		3	9
4		4		4		4			
5		5		5		5			
6		6		6		6			
7		7		7		7			
8		8		8		8			
9		9		9		9			
10		10		10		10			
11		11		11		11			
13		13		13		13			

TRIODE PINS VOLTAGE (V)

	B	C	E
V203			
V204			
V208			
V701			
V704			
V705			
V706			
V401			
V402			
V403			
V405			
V511			
V553			
VD01			
VD02			
VD03			
V605			
V611			
V612			

DIODE VOLTAGE (V)

VD401	
VD402	
VD403	
VD551	
VD552	
VD553	
VD554	

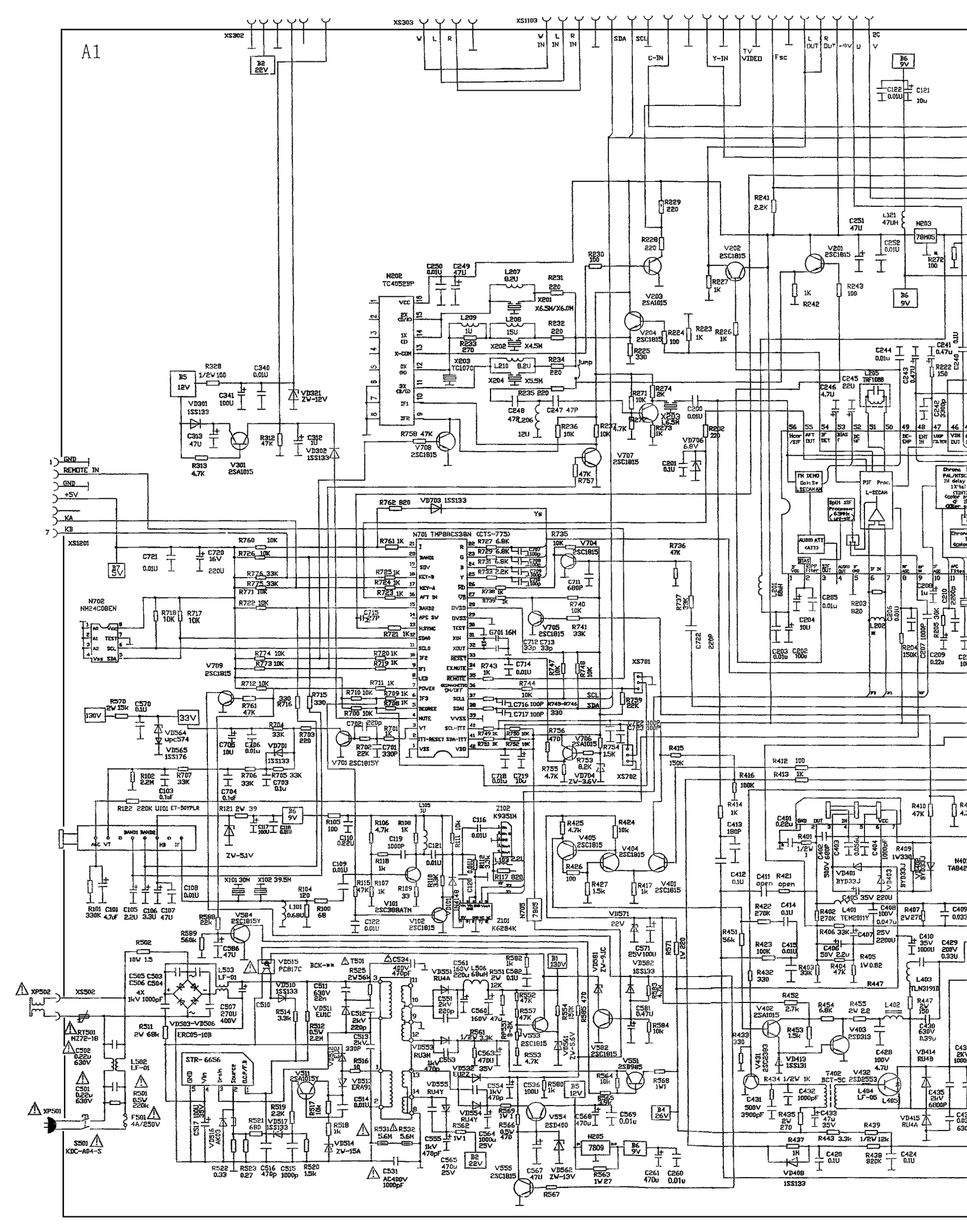
N303 TA1216AN PINS VOLTAGE (V)

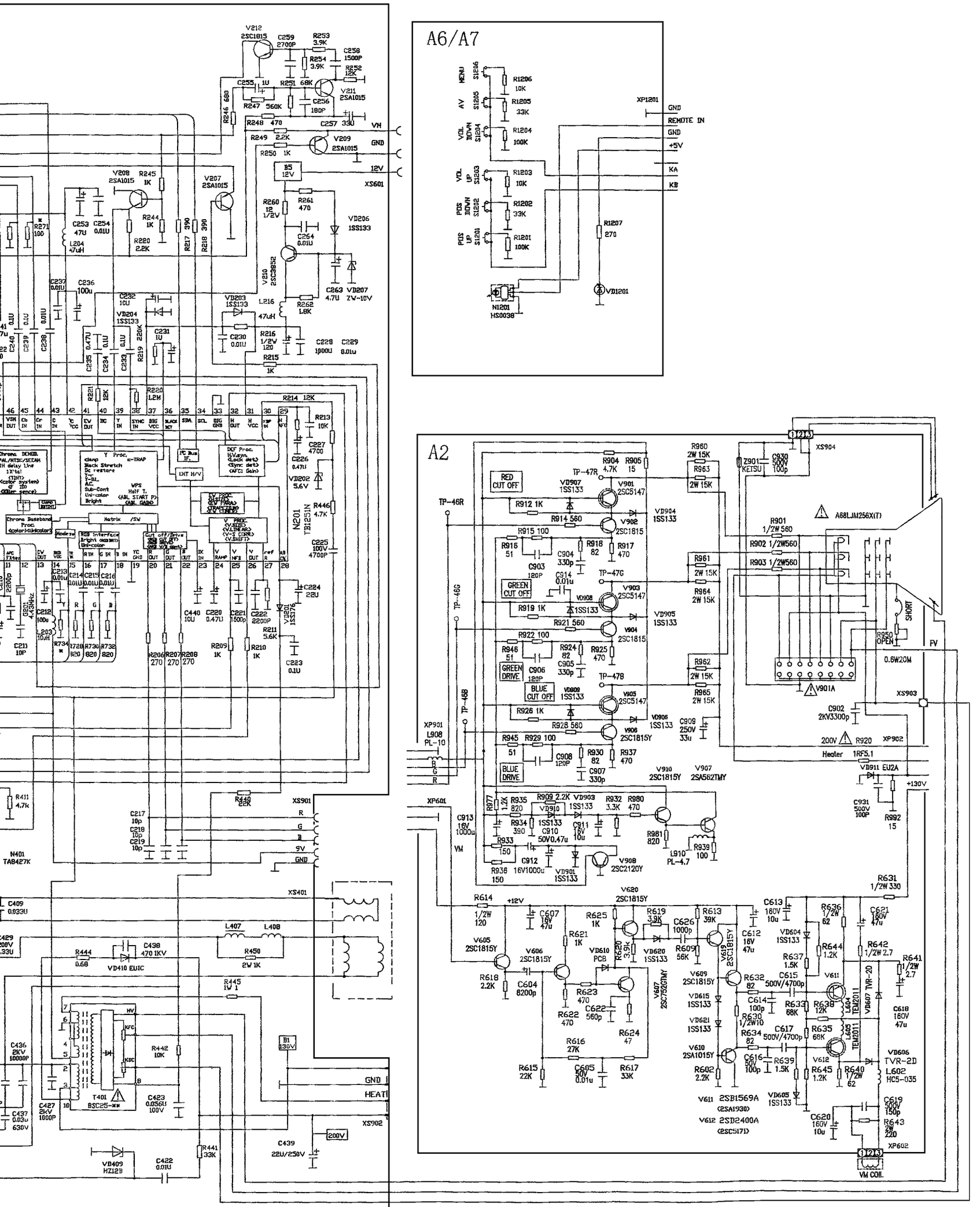
PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1		7		13		19		25	
2		8		14		20		26	
3		9		15		21		27	
4		10		16		22		28	
5		11		17		23		29	
6		12		18		24		30	

A1

A6/A7

A2


A1
XS302
XS303
XS1103
W IN
L IN
R IN
SDA
SCL
C-IN
Y-IN
TV VIDEO
Fsc
L OUT
R OUT
-9V
U
V
2C
B6 9V
B2 22V
B5 12V
B7 5V
B4 26V
GND
REMOTE IN
+5V
KA
KB
XS1201
N202 TC40528P
N201 TC1070
X201 X6.5M/X6.0M
X202 X4.5M
X203 X5.5M
X204 X5.5M
L207 8.2U
L209 1U
L208 15U
L210 8.2U
VD301 1SS133
VD302 1SS133
VD321 ZW-12V
V301 2SA1015
V708 2SC1815
V707 2SC1815
V709 2SC1815
V201 2SC1815
V202 2SC1815
V203 2SA1015
V204 2SC1815
V205 2SC1815
V206 2SA1015
V704 2SC1815
N701 TMP88CS38N (CTS-775)
N702 NM24C08EN
N703 7805
N704 7809
N205 7809
VD703 1SS133
VD564 upc574
VD565 1SS176
VD701 1SS133
VD571 22V
VD572 1SS133
VD581 ZW-9.1C
VD582 ZW-5.6V
VD583 ZW-3.6V
VD584 2SC1815Y
V584 2SC1815Y
V701 2SC1815Y
V102 2SC1815
V101 2SC3888ATM
V401 2SC1815
V402 2SA1015
V403 2SD313
V404 2SC1815
V405 2SC1815
V431 2SC2383
V432 2SD2553
V551 2SB985
V552 2SC1815
V553 2SC1815
V554 2SD400
V555 2SC1815
V561 2SC1815
V582 2SC1815
V584 2SC1815Y
VD401 BYD33J
VD402 BYD33J
VD403 BYD33J
VD408 1SS133
VD410 1SS133
VD411 1SS131
VD412 1SS133
VD413 1SS131
VD414 RU4B
VD415 RU4A
VD501 PCB17C
VD503-VD506 ERC05-10B
VD510 1SS133
VD511 EU1C
VD512 EU1C
VD513 ERA91
VD514 ZW-15A
VD515 PCB17C
VD516 AK03
VD517 1SS133
VD531 EU2Z
VD532 EU2Z
VD533 RU3H
VD551 RU4A
VD552 RU4Y
VD553 RU4Y
VD554 RU4Y
VD555 RU4Y
VD561 ZW-5.6V
VD562 ZW-13V
Z101 K6284K
Z102 K9351M
XS501 KDC-A04-S
XS502
XS701
XS702
XP501
XP502
RT501 MZ7Z-18
F501 4A/250V
S501
L501 LF-01
L502 LF-01
L503 LF-01
L401 TEM2011Y
L402 BCT-SC
L403 TLN3191D
L404 LF-05
L405
L501 0.22u 630V
L502 LF-01
L503 LF-01
T401 TAB42
T501 BCK-xx
STR-6656
TA8403K
TA8403K
TA8403K


A6/A7
A2
XP1201
GND
REMOTE IN
+5V
KA
KB
VD1201
N1201
HS0038
XS601
XS901
XS902
XS903
XS904
XP601
XP602
XP901
VM COIL
SHORT
OPEN
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
GREEN DRIVE
BLUE DRIVE
A68LJM256X(T)
Heater 1RF5.1
HEAT
GND