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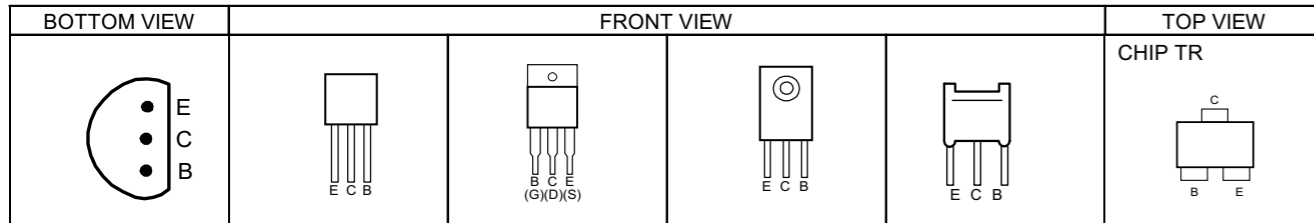
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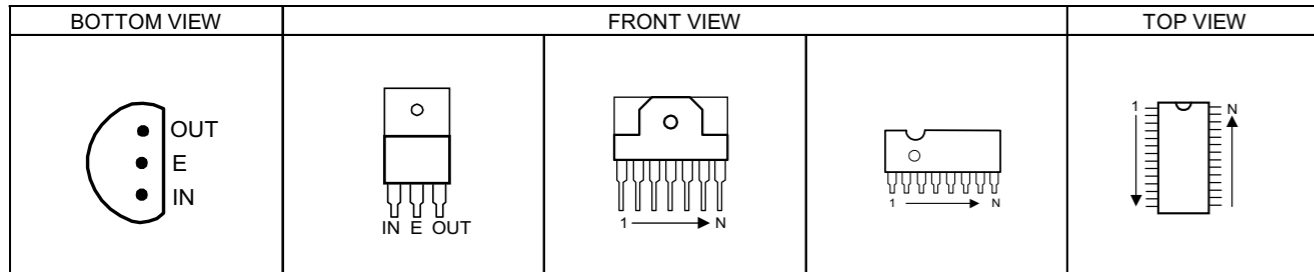
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SEMICONDUCTOR SHAPES

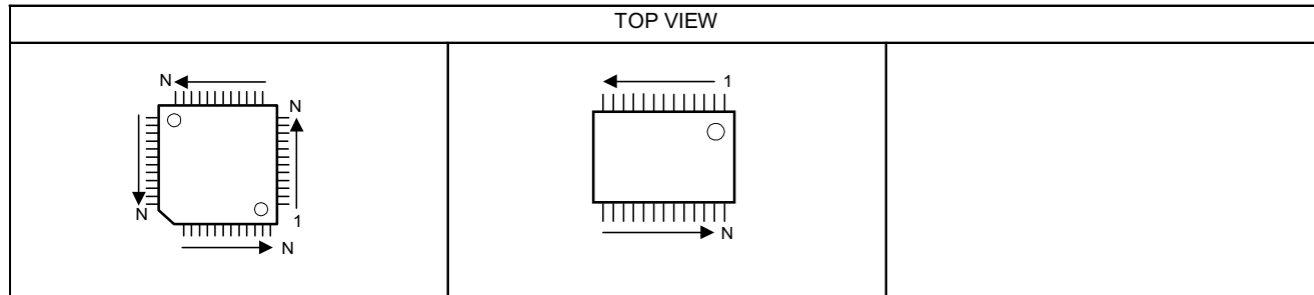
TRANSISTOR



IC



CHIP IC



STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the Δ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Color bar signal
 - (2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
 - (3)Internal resistance of tester :DC 20k Ω /V
 - (4)Oscilloscope sweeping time :H \Rightarrow 20 μ S/div
:V \Rightarrow 5mS/div
:Others \Rightarrow Sweeping time is specified
 - (5)Voltage values :All DC voltage values
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board :R1209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

- No unit :[Ω]
- K :[K Ω]
- M :[M Ω]

●Rated allowable power

- No indication :1/16 [W]
- Others :As specified

●Type

- No indication :Carbon resistor
- OMR :Oxide metal film resistor
- MFR :Metal film resistor
- MPR :Metal plate resistor
- UNFR :Unflammable resistor
- FR :Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

- 1 or higher :[pF]
- less than 1 :[μ F]

●Withstand voltage

- No indication :DC50[V]
- Others :DC withstand voltage [V]
- AC indicated :AC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [μ F]/withstand voltage[V]

- Type
- No indication :Ceramic capacitor
- MY :Mylar capacitor
- MM :Metalized mylar capacitor
- PP :Polypropylene capacitor
- MPP :Metalized polypropylene capacitor
- MF :Metalized film capacitor
- TF :Thin film capacitor
- BP :Bipolar electrolytic capacitor
- TAN :Tantalum capacitor
- (3)Coils
- No unit :[μ H]
- Others :As specified

(4)Power Supply

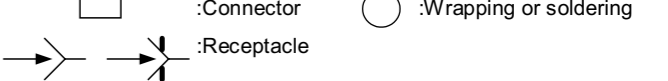


*Respective voltage values are indicated

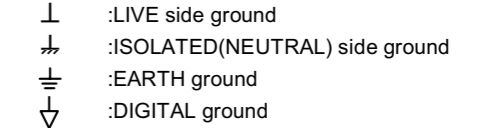
(5)Test point



(6)Connecting method



(7)Ground symbol



5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND and the ISOLATED(NEUTRAL) : (⏏) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

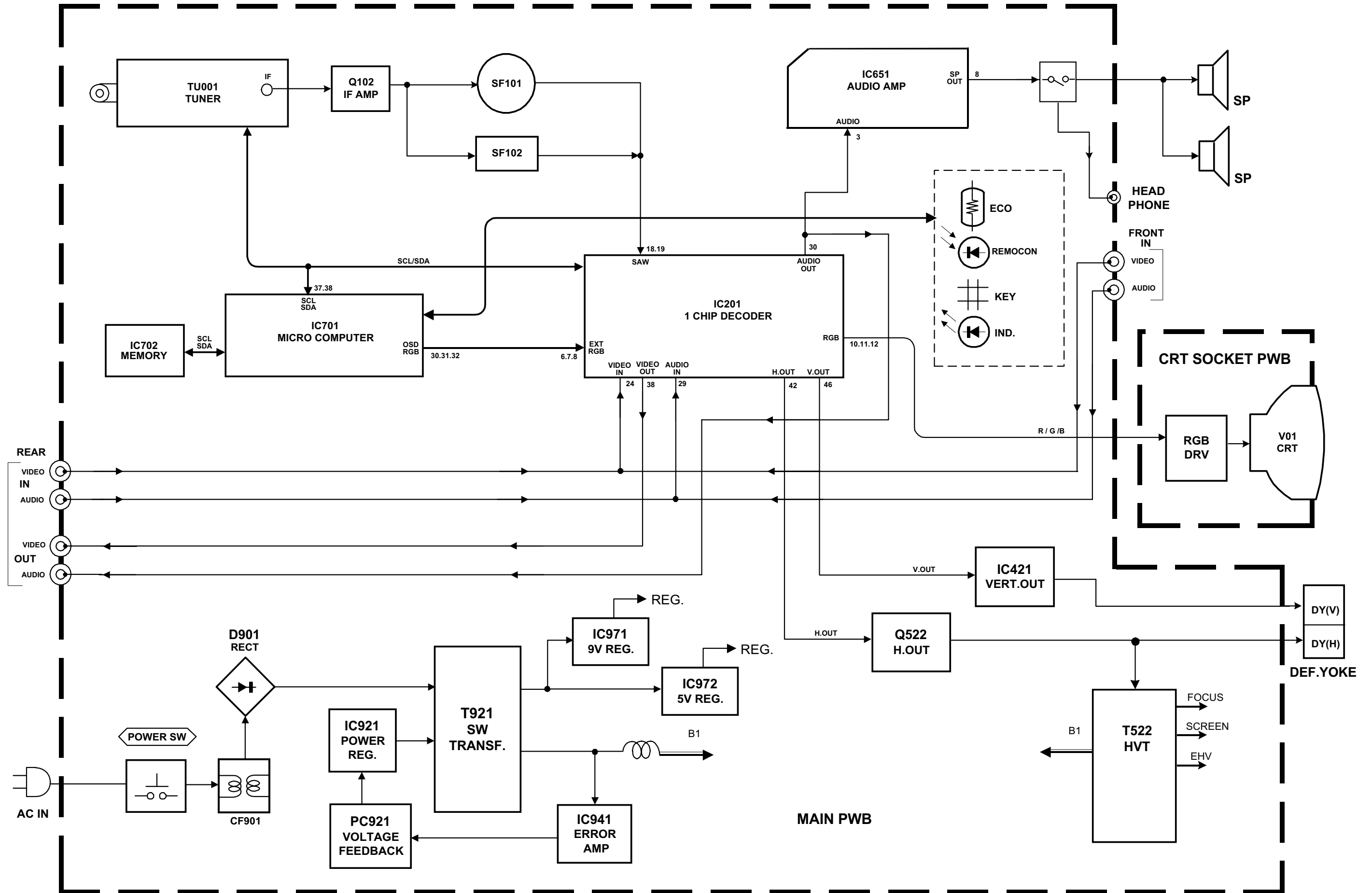
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

◇ NOTE

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

BLOCK DIAGRAM



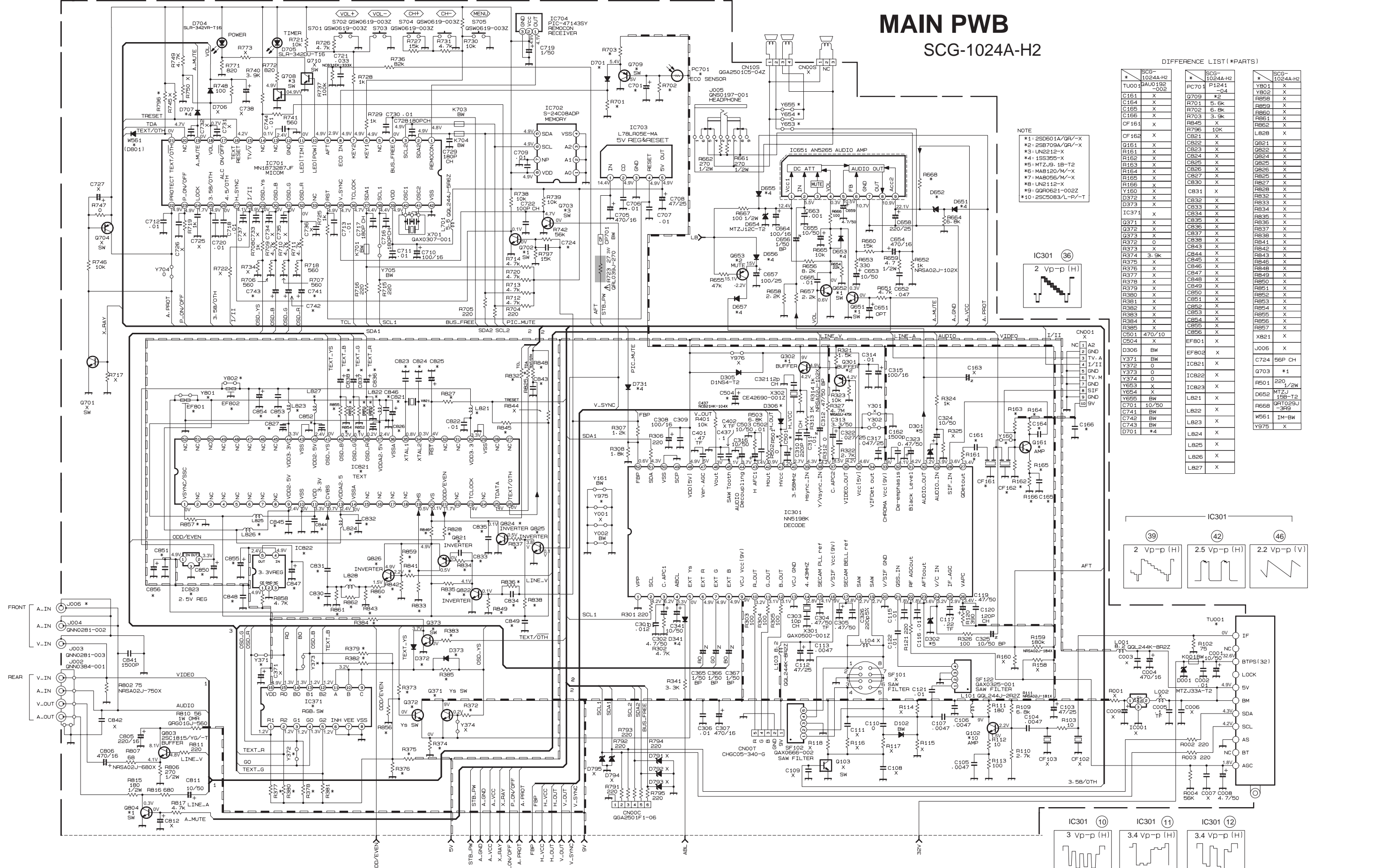
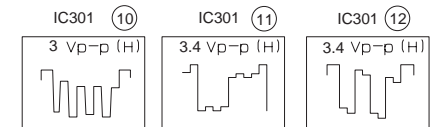
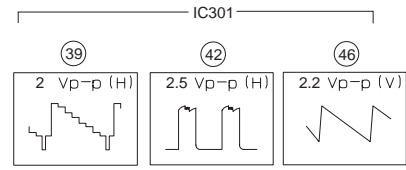
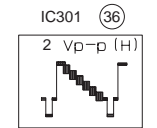
CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]

MAIN PWB SCG-1024A-H2

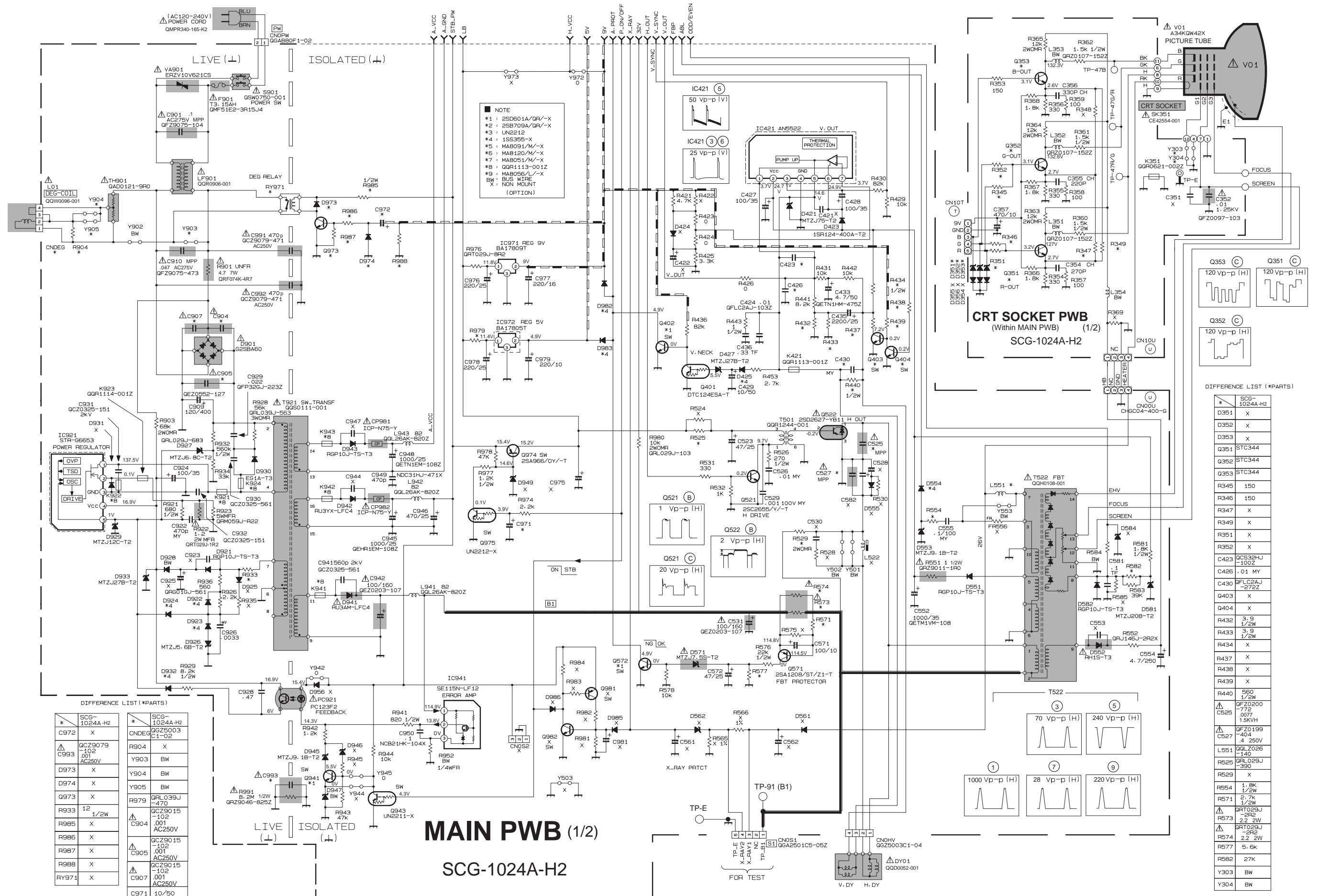
DIFFERENCE LIST (*PARTS)

SCG-1024A-H2	SCG-1024A-H2	SCG-1024A-H2
TU001	P1241	YB01
C161	YB02	YB02
C164	Q709	RB59
C165	R701	RB59
C166	R702	RB59
CF161	R703	RB51
CF162	RB45	RB28
Q161	R796	LB28
R161	CB21	QB21
R162	CB22	QB22
R163	CB23	QB23
R164	CB24	QB24
R165	CB25	QB25
R166	CB26	QB26
R167	CB27	QB27
R168	CB28	QB28
Y160	CB29	QB29
D372	CB30	QB30
D373	CB31	QB31
IC371	CB32	QB32
Q371	CB33	QB33
Q372	CB34	QB34
Q373	CB35	QB35
R372	CB36	QB36
R373	CB37	QB37
R374	CB38	QB38
R375	CB39	QB39
R376	CB40	QB40
R377	CB41	QB41
R378	CB42	QB42
R379	CB43	QB43
R380	CB44	QB44
R381	CB45	QB45
R382	CB46	QB46
R383	CB47	QB47
R384	CB48	QB48
R385	CB49	QB49
CB50	CB50	QB50
CB51	CB51	QB51
CB52	CB52	QB52
CB53	CB53	QB53
CB54	CB54	QB54
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CB69	CB69	QB69
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CB92	CB92	QB92
CB93	CB93	QB93
CB94	CB94	QB94
CB95	CB95	QB95
CB96	CB96	QB96
CB97	CB97	QB97
CB98	CB98	QB98
CB99	CB99	QB99
CB100	CB100	QB100

NOTE
 *1: 2SD601A/GR/-X
 *2: 2SB709A/GR/-X
 *3: UN2212-X
 *4: 1SS355-X
 *5: MTZJ3.1B-T2
 *6: MAB120/MA/-X
 *7: MAB056/MA/-X
 *8: UN2112-X
 *9: QGR0621-002Z
 *10: 2SC5083/L-P/-T



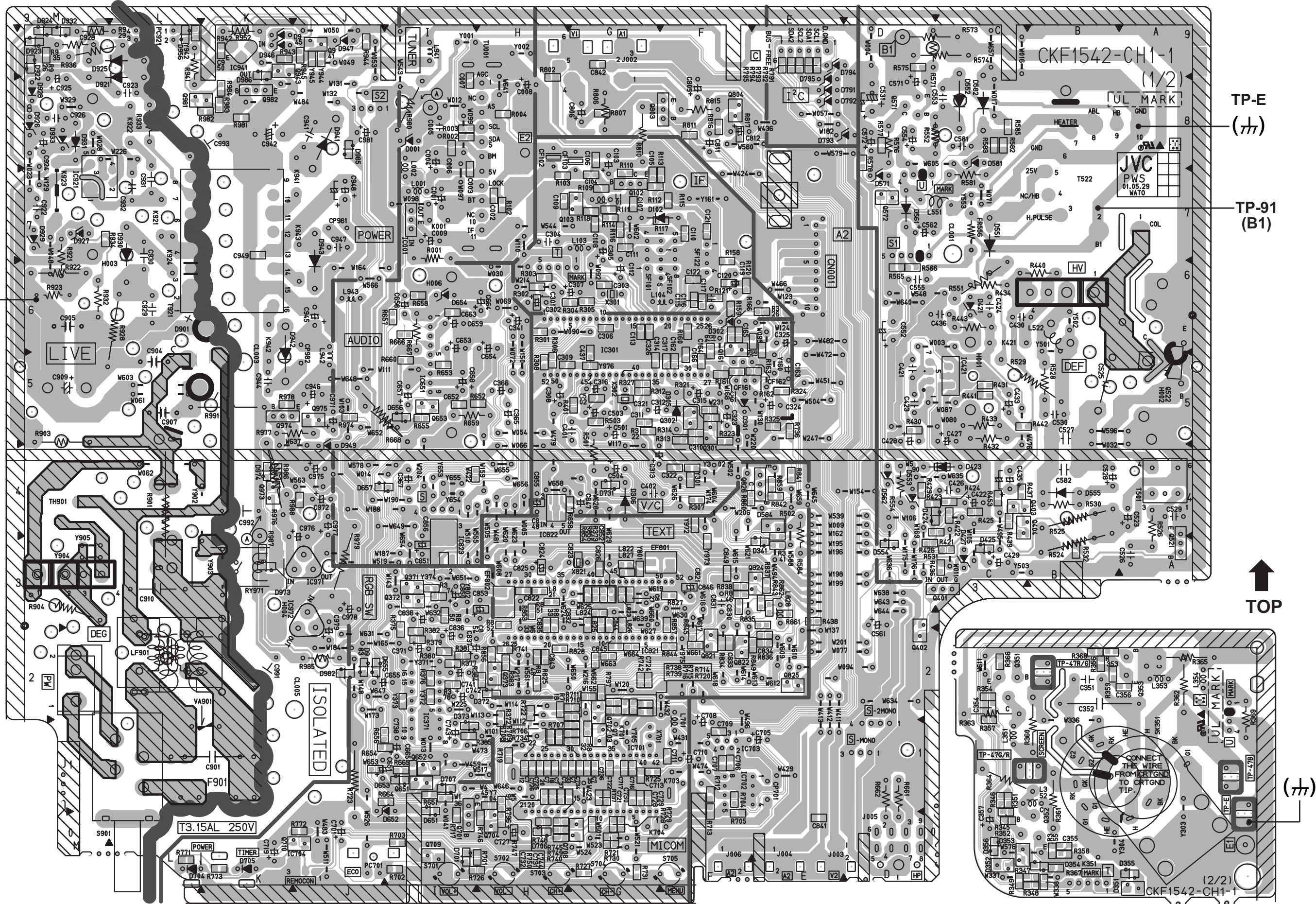
MAIN PWB CIRCUIT DIAGRAM [2/2]



PATTERN DIAGRAMS MAIN & CRT SOCKET PWB PATTERN

FRONT

(L)



TP-E (H)

TP-91 (B1)

TOP

(H)