

JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

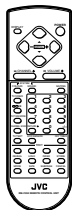
BASIC CHASSIS

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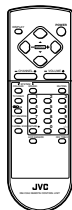
AV-29LS
AV-29LS(-AU)
AV-29LH

AV-29LX
AV-29LX(-A)
AV-29LX(-AU)
AV-2908TEE

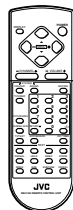
CD-ROM No. SML200106



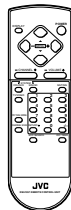
RM-C352-1C
[AV-29LS]
[AV-29LS(-AU)]



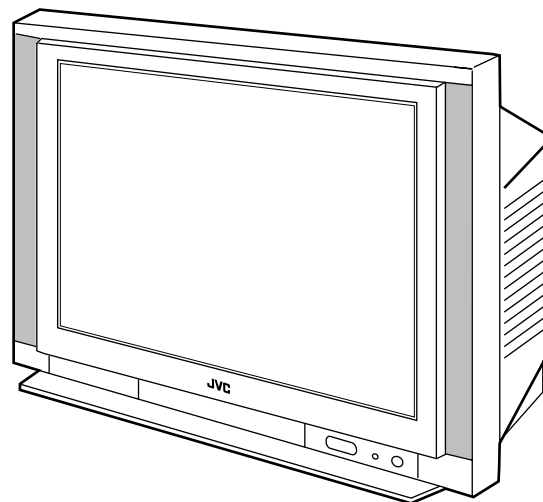
RM-C353-1C
[AV-29LH]



RM-C355-1C
[AV-2908TEE]



RM-C357-1C
[AV-29LX]
[AV-29LX(-A)]
[AV-29LX(-AU)]



AV-29LS AV-29LX AV-2908TEE

AV-29LS(-AU) AV-29LX(-A) AV-29LH AV-29LX(-AU)

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the \triangle 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 : Colour 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 : Non-Flammable 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]
- AC indicated : AC withstand voltage [V]
- Others : DC 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



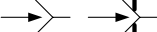
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5) Test point

-  : Test point
-  : Only test point display

(6) Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7) Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

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) : (\nearrow) 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.

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CIRCUIT DIAGRAMS

P.W.B. name	Model	AV-29LS AV-29LS-AU AV-29LH	AV-29LX AV-29LX-A AV-29LX-AU AV-2908TEE
MAIN PWB CIRCUIT DIAGRAM (1/2)		P2-5	P2-7
MAIN PWB CIRCUIT DIAGRAM (2/2)		P2-9	P2-11
CRT SOCKET PWB CIRCUIT DIAGRAM		P2-13	←
FRONT CONTROL PWB CIRCUIT DIAGRAM		P2-15	←

PATTERN DIAGRAMS

Patten name	Model	AV-29LS AV-29LS-AU AV-29LH	AV-29LX AV-29LX-A AV-29LX-AU AV-2908TEE
MAIN PWB PATTERN		P2-17	←
CRT SOCKET PWB PATTERN		P2-19	←
FRONT CONTROL PWB PATTERN		P2-20	←

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

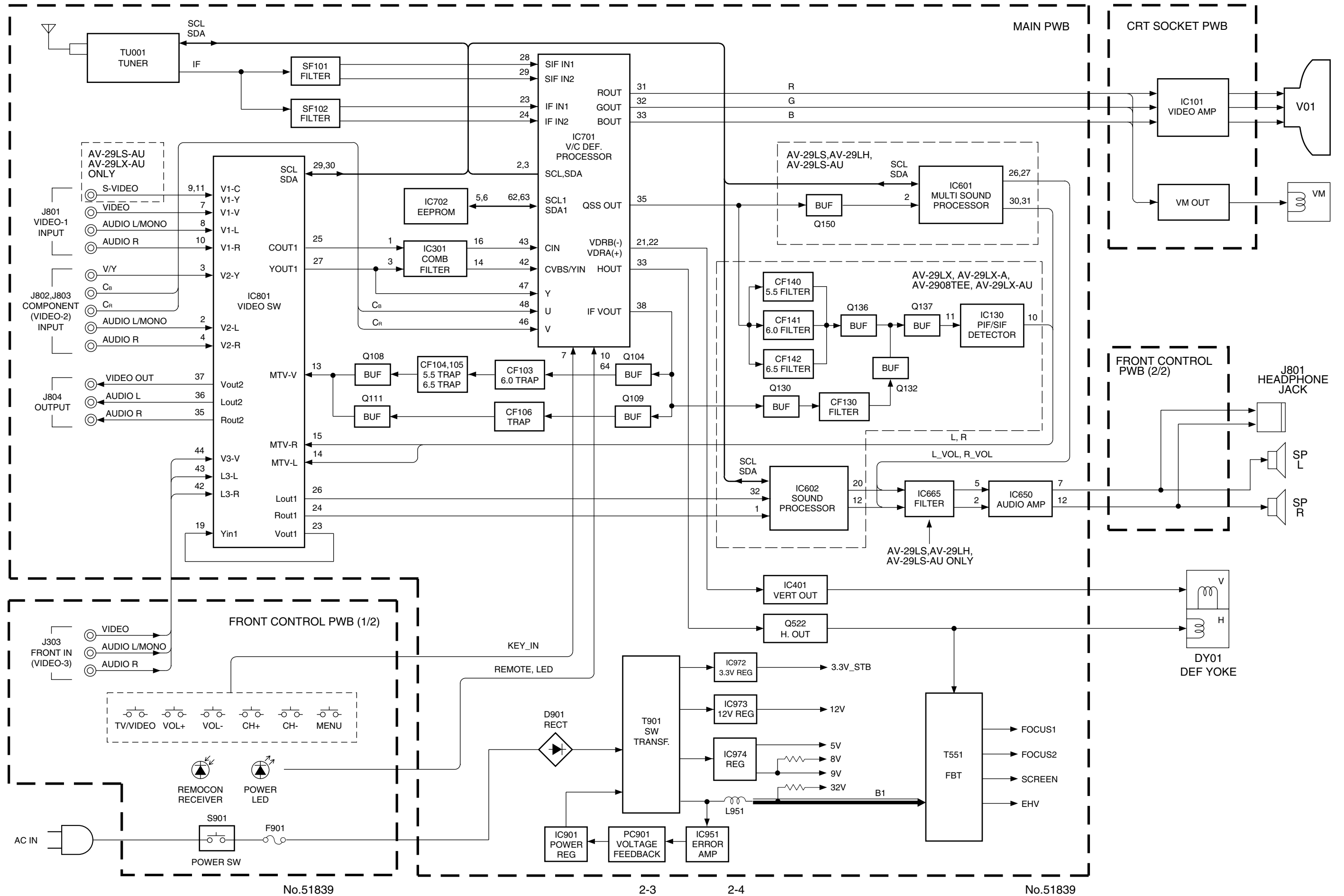
BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

TOP VIEW	

AV-29LS AV-29LX AV-29LS AV-29LX
 AV-29LH AV-2908TEE AV-29LH AV-2908TEE

BLOCK DIAGRAM



No.51839

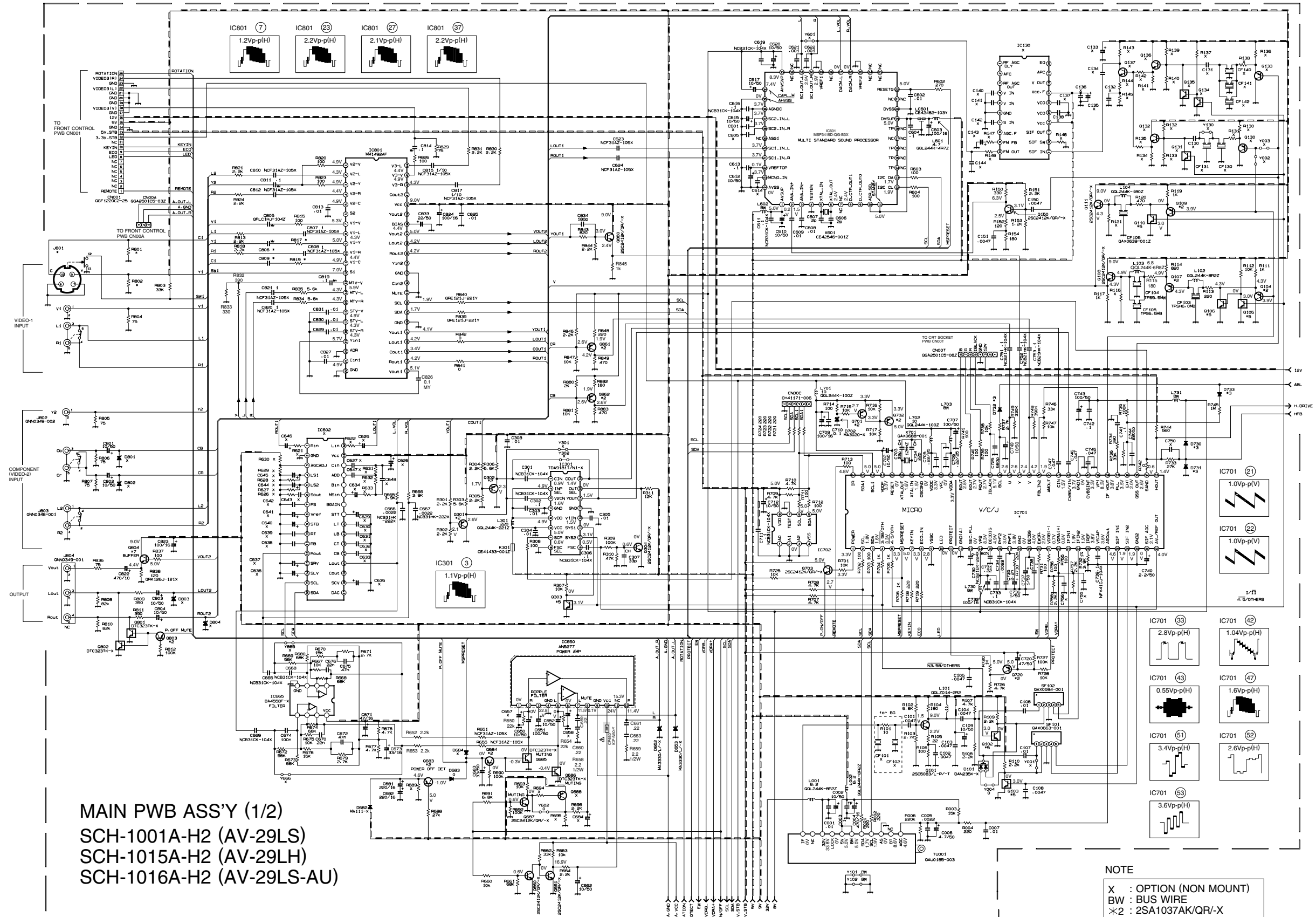
2-3

2-4

No.51839

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2) [AV-29LS, AV-29LS-AU, AV-29LH]



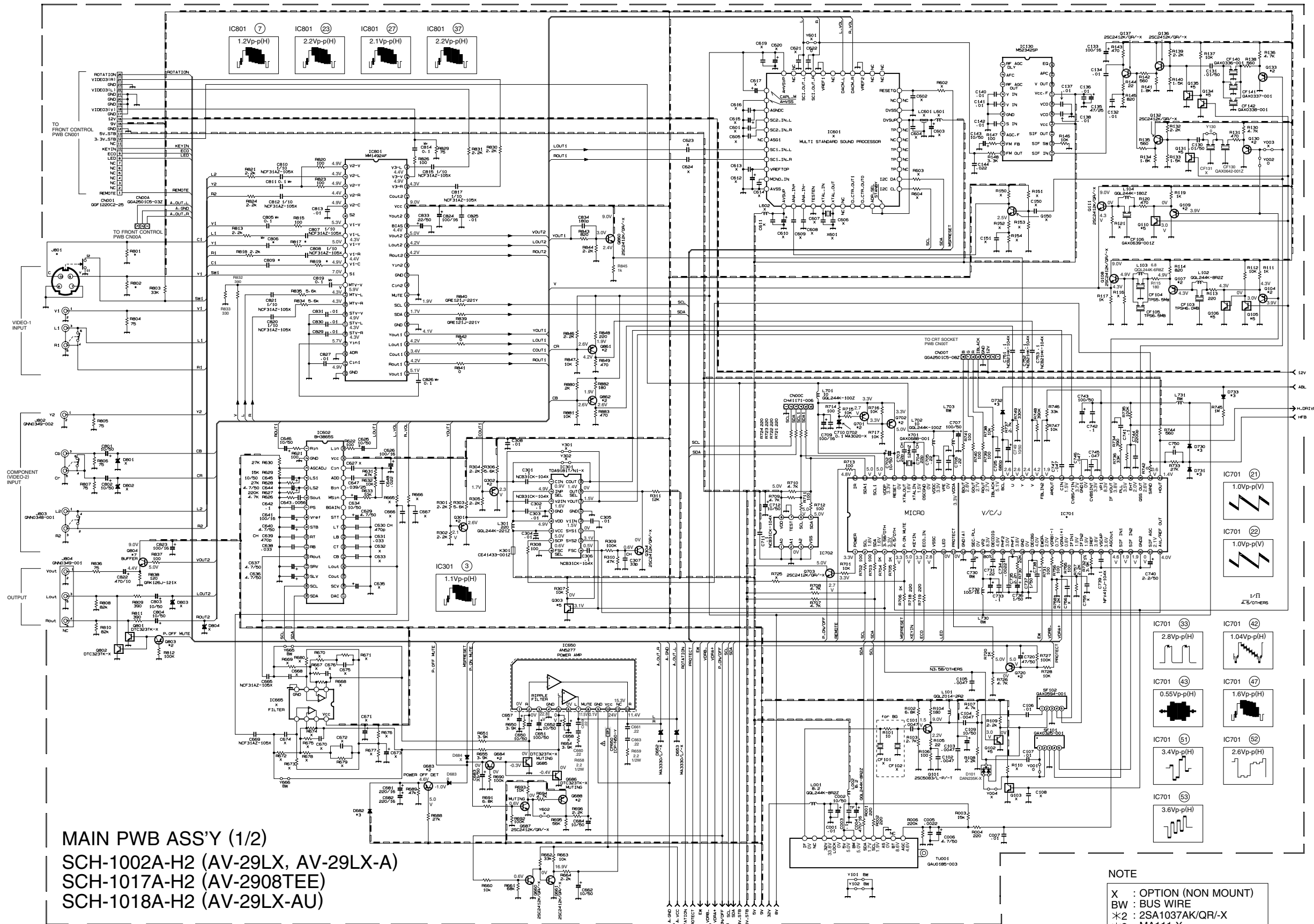
MAIN PWB ASS'Y (1/2)
SCH-1001A-H2 (AV-29LS)
SCH-1015A-H2 (AV-29LH)
SCH-1016A-H2 (AV-29LS-AU)

NOTE
X : OPTION (NON MOUNT)
BW : BUS WIRE
*2 : 2SA1037AK/QR-X
*3 : MA111-X
*5 : DTC124EKA-X
*7 : 2SC1740S/QR-T

* DIFFERENCE LIST (*PARTS)

	IC701	J801	R801	R802	R817	R819	C806	C809
SCH-1001A-H2	TDA9365N13S0436	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1015A-H2	TDA9365N12S0432	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1016A-H2	TDA9365N13S0436	QNZ0454-001	75Ω	75Ω	100Ω	100Ω	0.1 μF	0.01 μF

MAIN PWB CIRCUIT DIAGRAM (1/2) [AV-29LX, AV-29LX-A, AV-29LX-AU, AV-2908TEE]

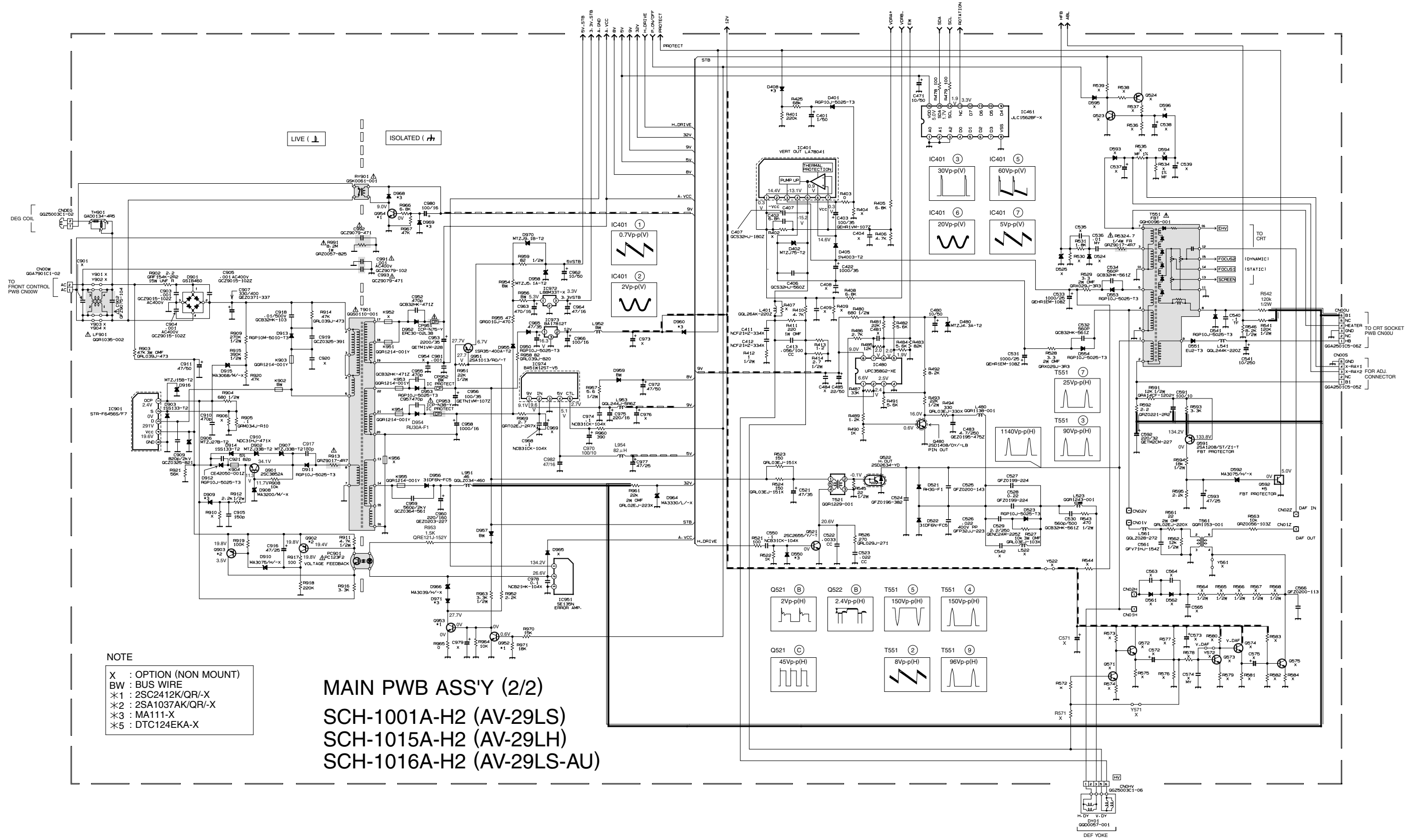


MAIN PWB ASS'Y (1/2)
SCH-1002A-H2 (AV-29LX, AV-29LX-A)
SCH-1017A-H2 (AV-2908TEE)
SCH-1018A-H2 (AV-29LX-AU)

* DIFFERENCE LIST (*PARTS)

	IC701	J801	R801	R802	R817	R819	C806	C809
SCH-1002A-H2	TDA9386N12S0432	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1017A-H2	TDA9365N13S0431	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1018A-H2	TDA9386N12S0432	QNZ0454-001	75Ω	75Ω	100Ω	100Ω	0.1 μF	0.01 μF

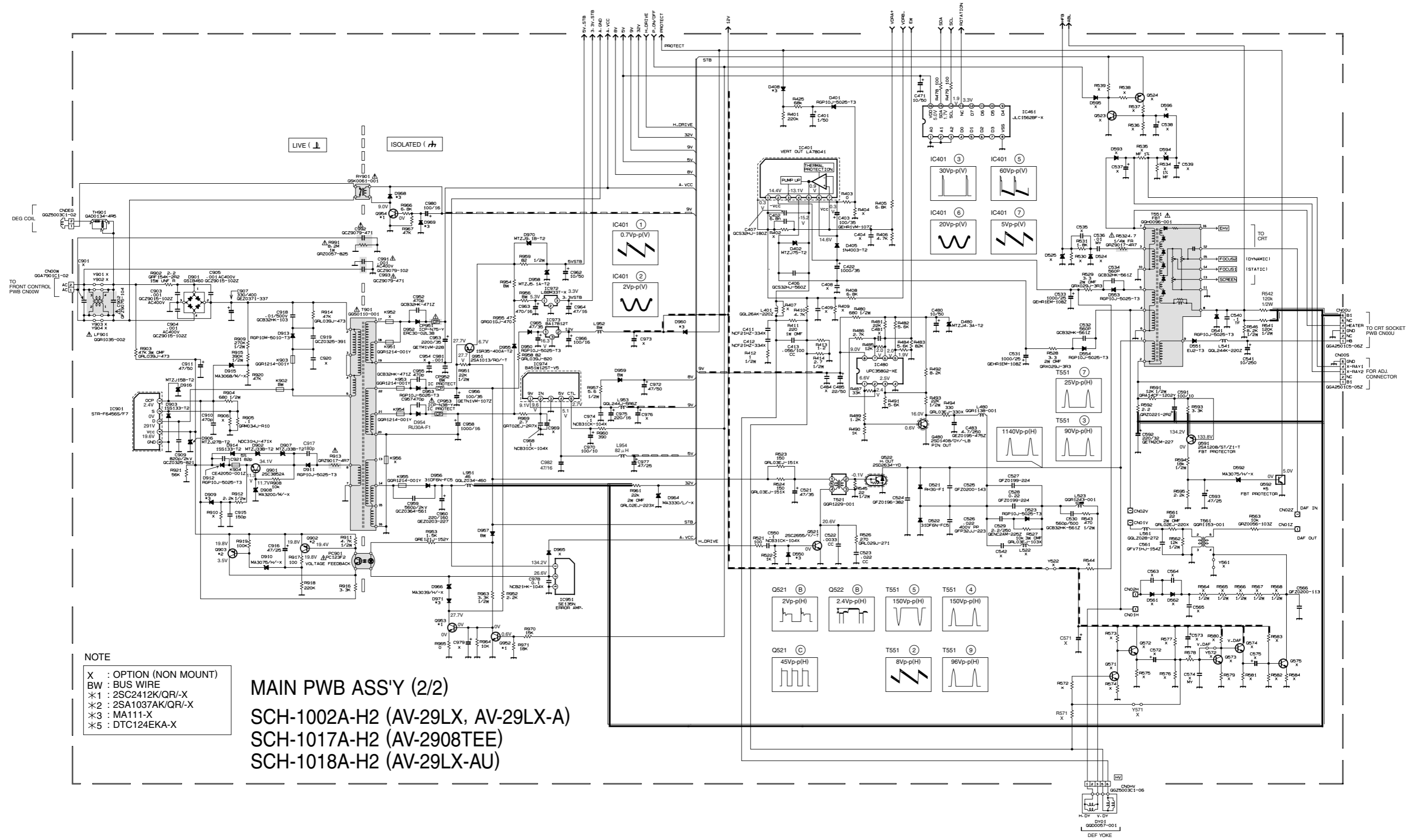
MAIN PWB CIRCUIT DIAGRAM (2/2) [AV-29LS, AV-29LS-AU, AV-29LH]



NOTE
 X : OPTION (NON MOUNT)
 BW : BUS WIRE
 *1 : 2SC2412K/QR-X
 *2 : 2SA1037AK/QR-X
 *3 : MA111-X
 *5 : DTC124EKA-X

MAIN PWB ASS'Y (2/2)
 SCH-1001A-H2 (AV-29LS)
 SCH-1015A-H2 (AV-29LH)
 SCH-1016A-H2 (AV-29LS-AU)

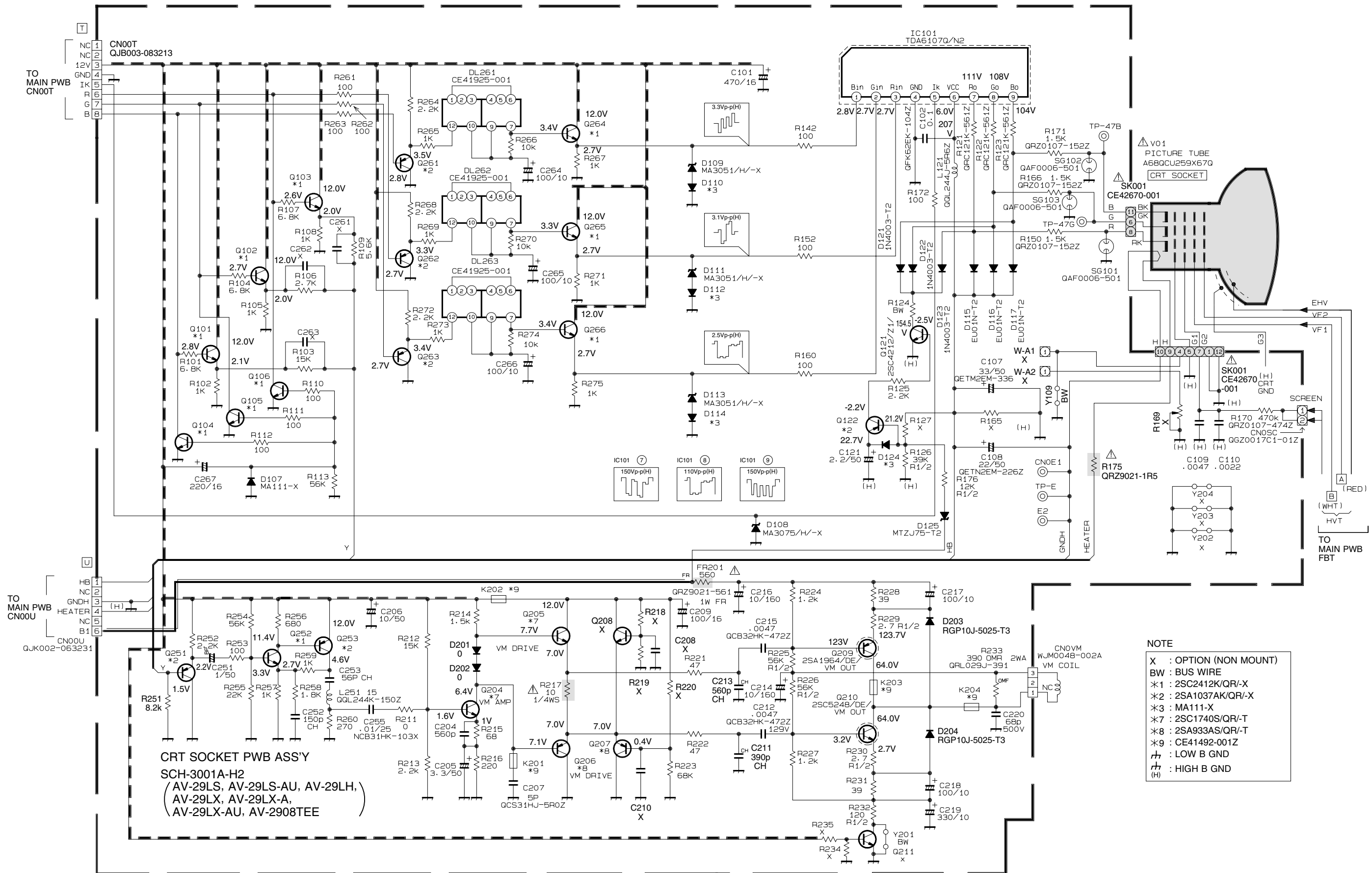
MAIN PWB CIRCUIT DIAGRAM (2/2) [AV-29LX, AV-29LX-A, AV-29LX-AU, AV-2908TEE]



NOTE
 X : OPTION (NON MOUNT)
 BW : BUS WIRE
 *1 : 2SC2412K/QR/-X
 *2 : 2SA1037AK/QR/-X
 *3 : MA111-X
 *5 : DTC124EKA-X

MAIN PWB ASS'Y (2/2)
 SCH-1002A-H2 (AV-29LX, AV-29LX-A)
 SCH-1017A-H2 (AV-2908TEE)
 SCH-1018A-H2 (AV-29LX-AU)

CRT SOCKET PWB CIRCUIT DIAGRAM



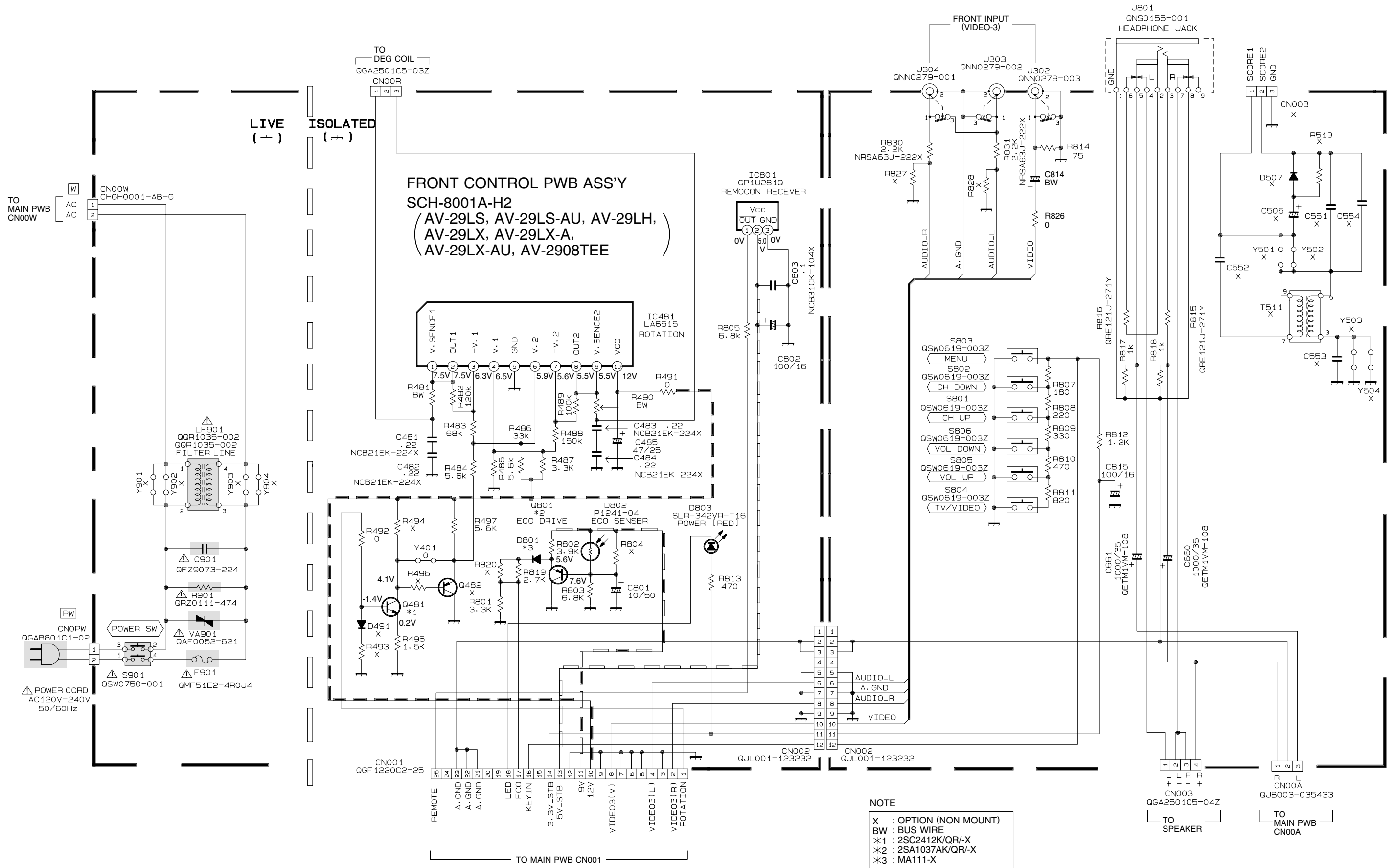
CRT SOCKET PWB ASS'Y
 SCH-3001A-H2
 (AV-29LS, AV-29LS-AU, AV-29LH,
 AV-29LX, AV-29LX-A,
 AV-29LX-AU, AV-2908TEE)

NOTE
 X : OPTION (NON MOUNT)
 BW : BUS WIRE
 *1 : 2SC2412K/QR/-X
 *2 : 2SA1037AK/QR/-X
 *3 : MA111-X
 *7 : 2SC1740S/QR/-T
 *8 : 2SA933AS/QR/-T
 *9 : CE41492-001Z
 † : LOW B GND
 ‡ : HIGH B GND
 (H)

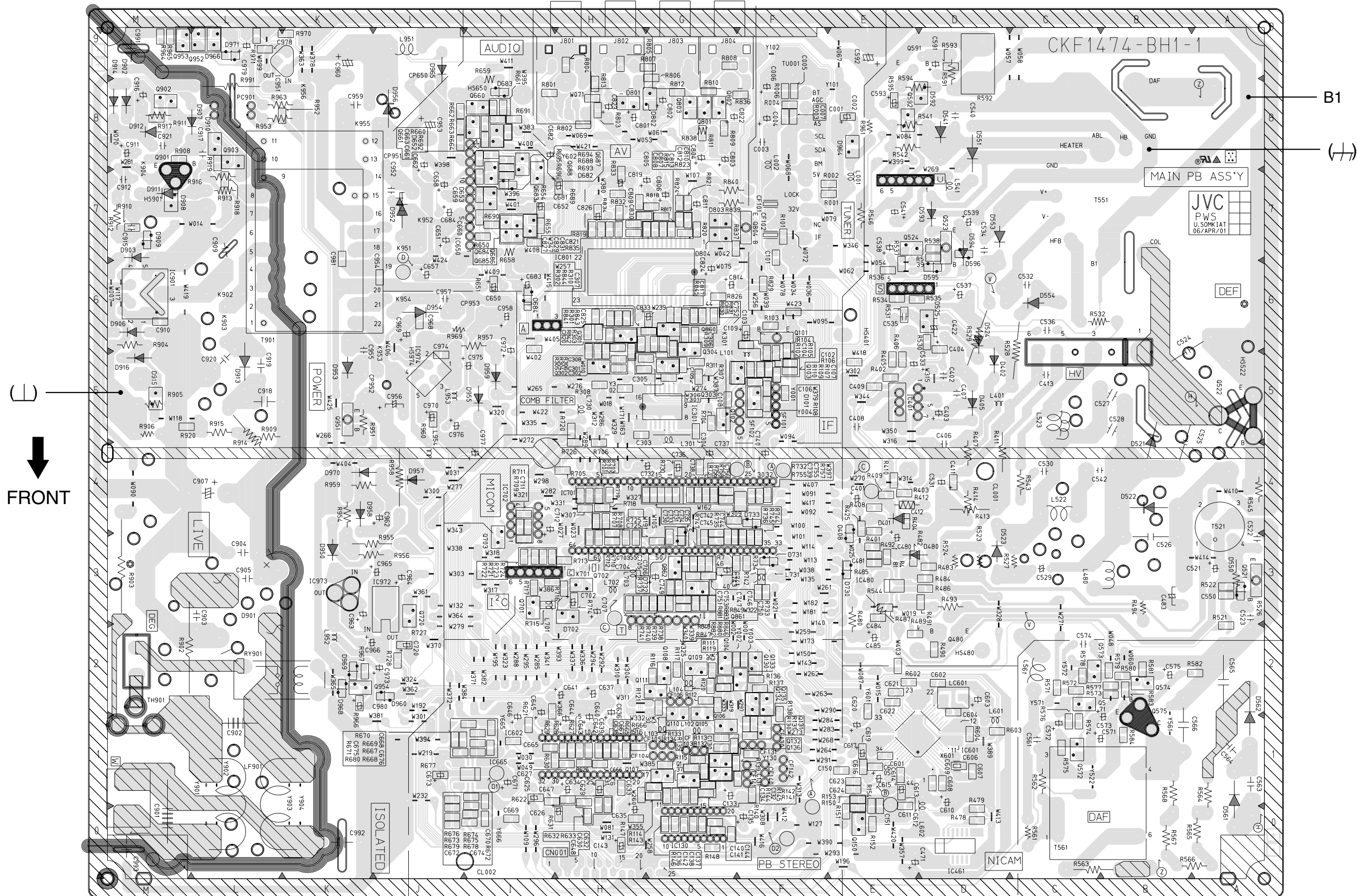
AV-29LS AV-29LX
AV-29LH AV-2908TEE

AV-29LS AV-29LX
AV-29LH AV-2908TEE

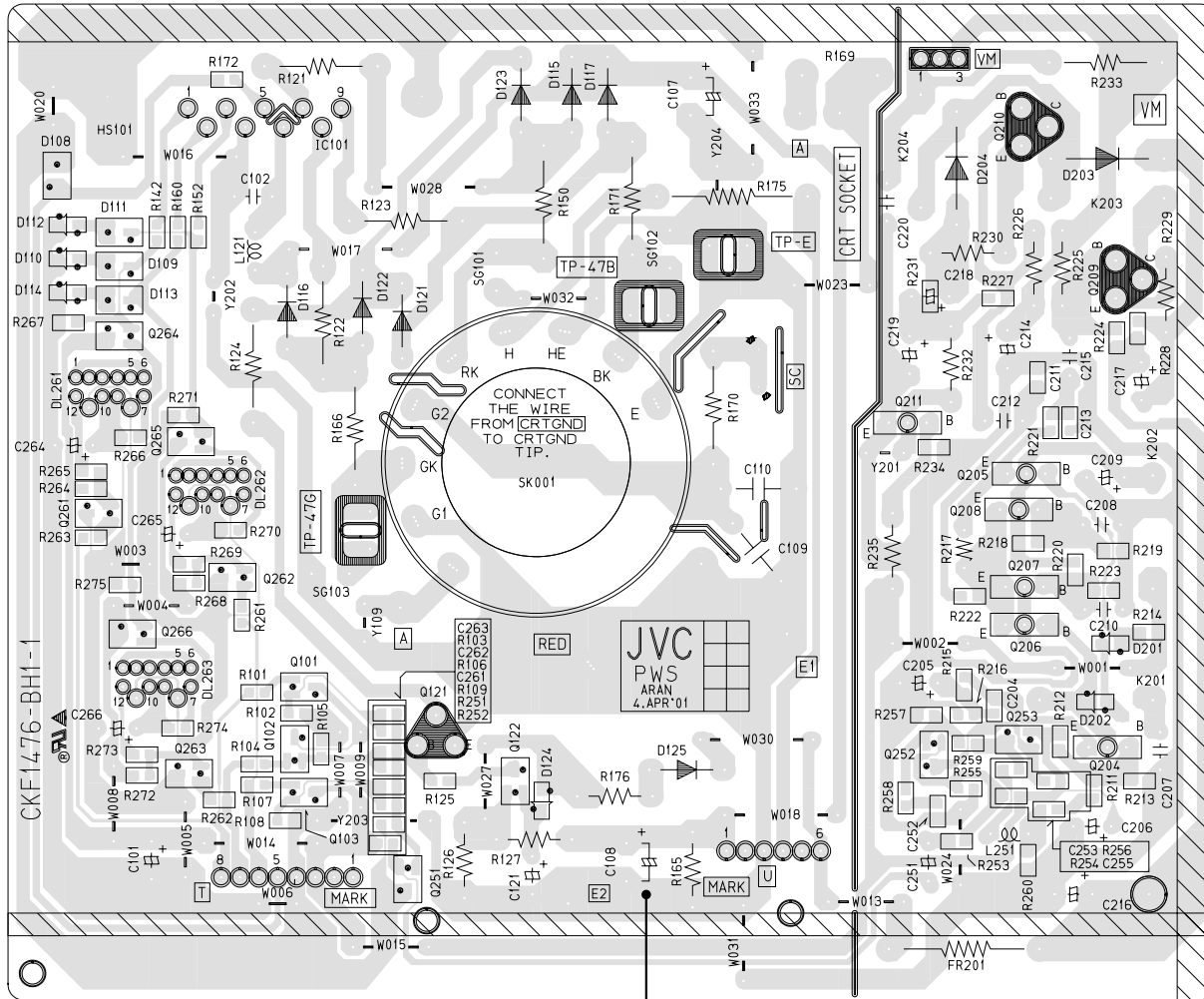
FRONT CONTROL PWB CIRCUIT DIAGRAM




PATTERN DIAGRAMS
MAIN PWB PATTERN



[CRT SOCKET PWB PATTERN]

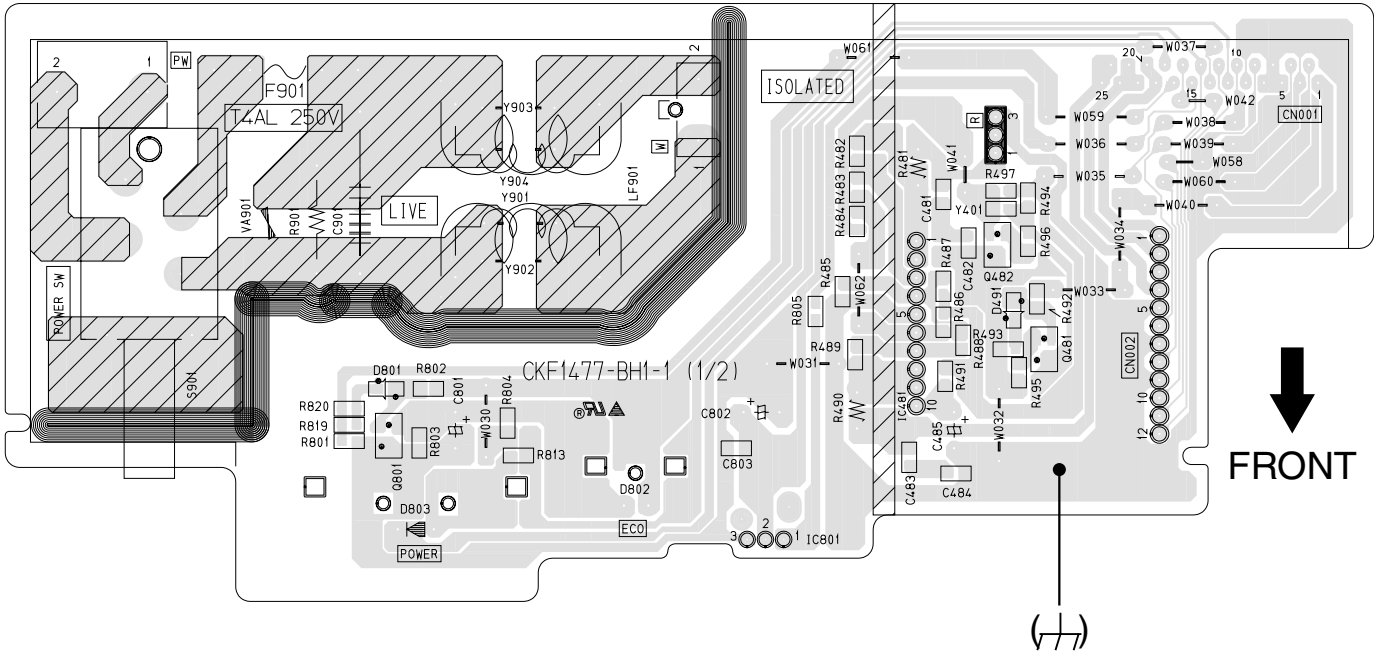


TOP


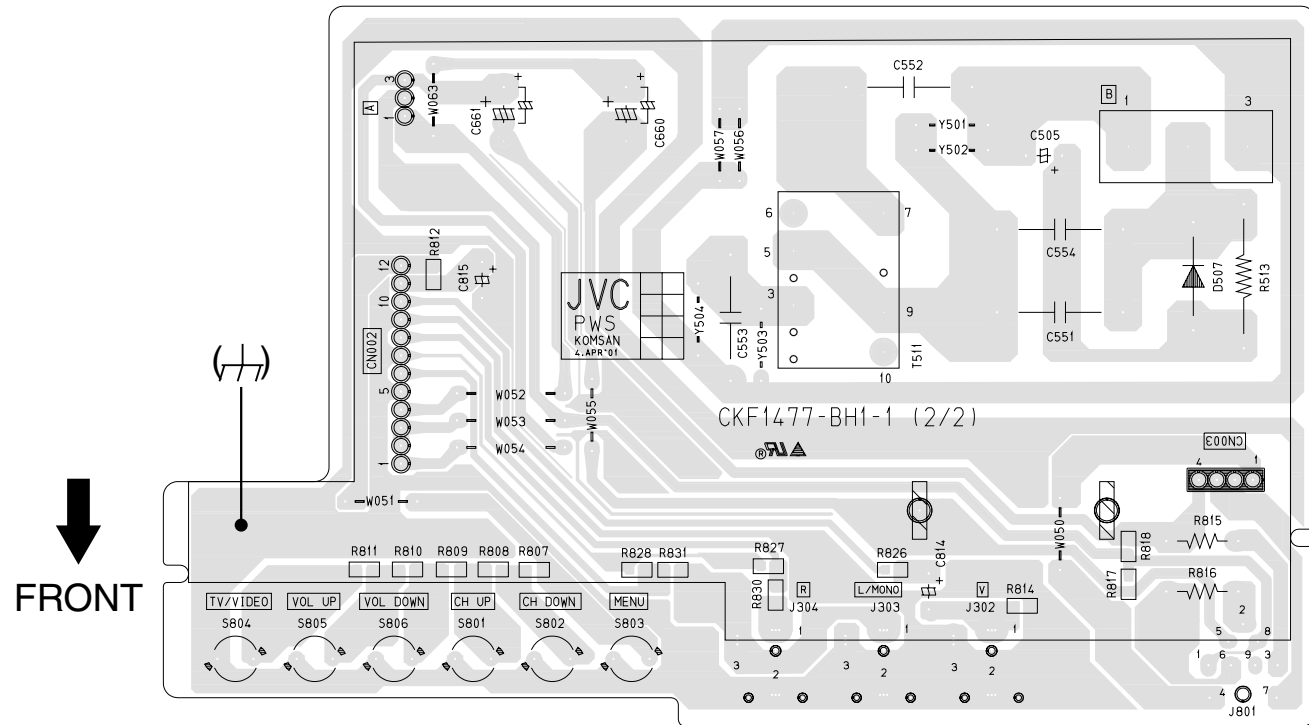


[FRONT CONTROL PWB PATTERN]

— FRONT CONTROL (1/2) —



— FRONT CONTROL (2/2) —





JVC

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AV29LS-H #4 AV29LSAU-H #4 AV29LH-H #4
AV29LX-H #4 AV29LXA-H #4 AV29LXAU-H #4
AV2908TEE-H #4



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