

SCHEMATIC DIAGRAM MODEL : 38D9LXE / 38D9LXA (1/5) 38D9LXH / 38D9LXR 38D9LXM

CAUTION: The international hazard symbol "A" in the schematic diagram and the parts list designate components which have special characteristics important to safety and should be replaced only with types identical to those specified. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not degrade the safety of the receiver through improper handling.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Volt, colour bar signal. Wavytip reading may vary 20%.
2. At low volume control setting using wideband audiofrequency low capacity probe.
3. At high volume control setting using wideband audiofrequency low capacity probe.
4. Make sure that **CONTRAST** and **COLOUR** controls are in mid. position and **BRIGHTNESS** control is adjusted to maximum position. Set other controls to test picture.

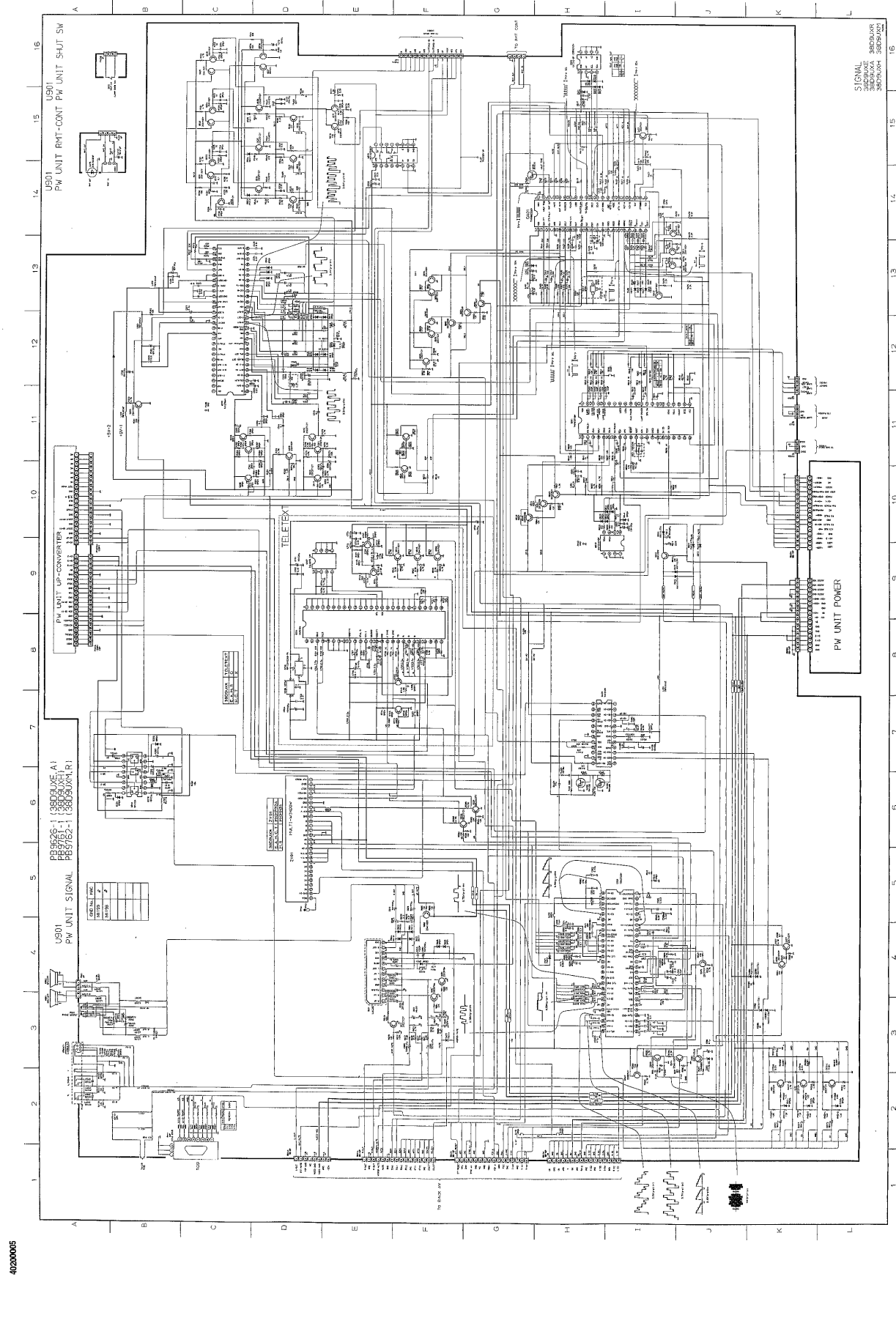
NOTES:

1. Resistance value of a printed component shown in this schematic diagram is in ohms, unless otherwise indicated.
2. The results are subject to change without notice.
3. Color tint.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR AND INDUCTOR

1. Resistance is shown in ohm, K=1,000, M=1,000,000.
2. Capacitance is shown in pF, K=1,000, M=1,000,000.
3. Inductance is shown in H, K=1,000, M=1,000,000.
4. Values more than 1 in pf, capacitor values less than 1 are expressed in pF and the values more than 1 in H, inductor values less than 1 are expressed in mH.

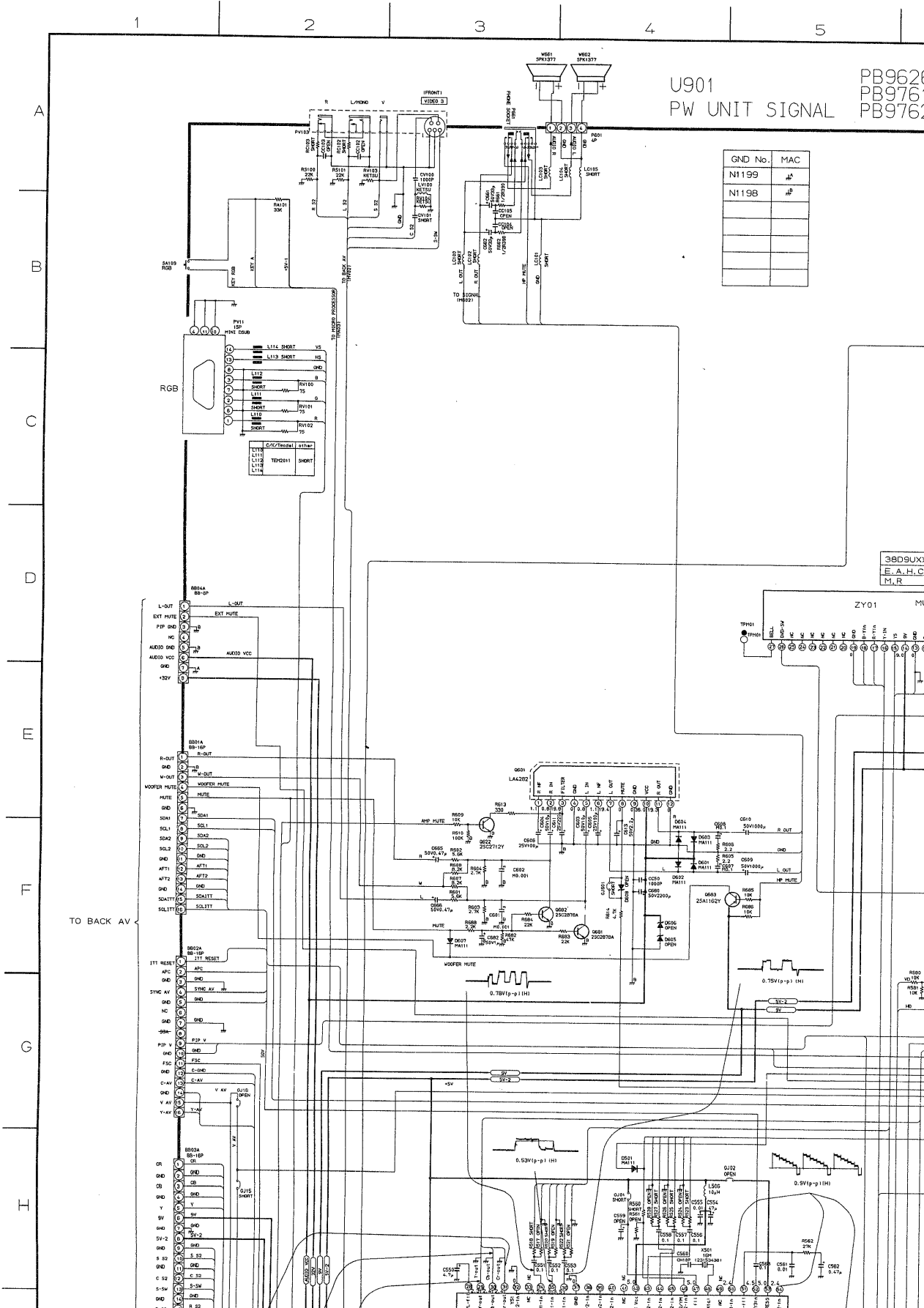


40200005

1. Voltages read with VTVM from point shown to volts, colour bar signal. Voltages reading may
2. All waveforms are taken using a wide band oscill
3. Waveforms are taken using a standard colour b
4. Make sure that CONTRAST and COLOUR co
BRIGHTNESS control is almost in maximum pos
picture.

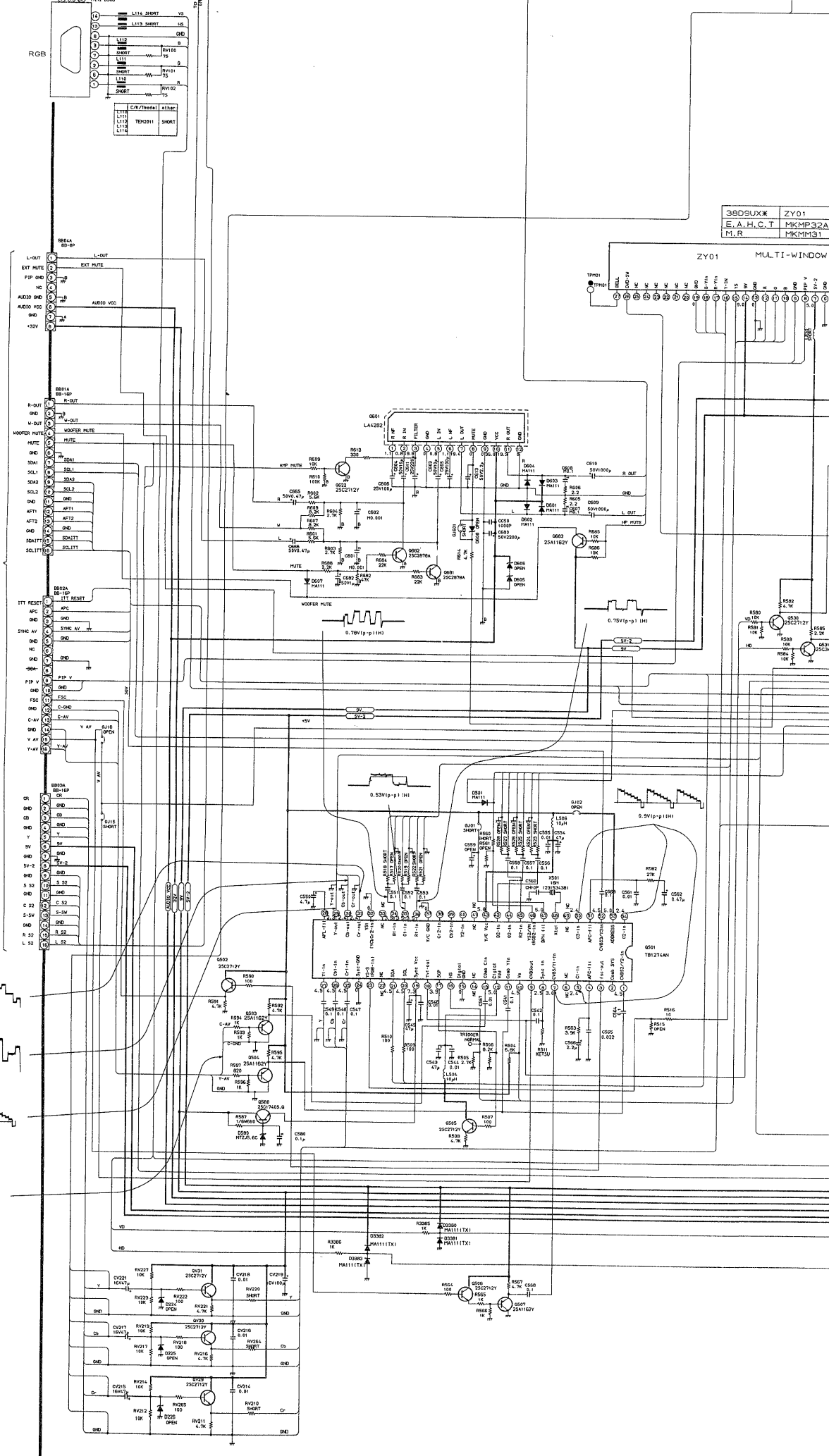
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

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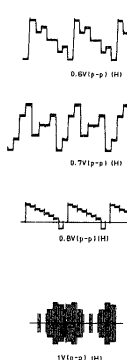


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TO BACK AV



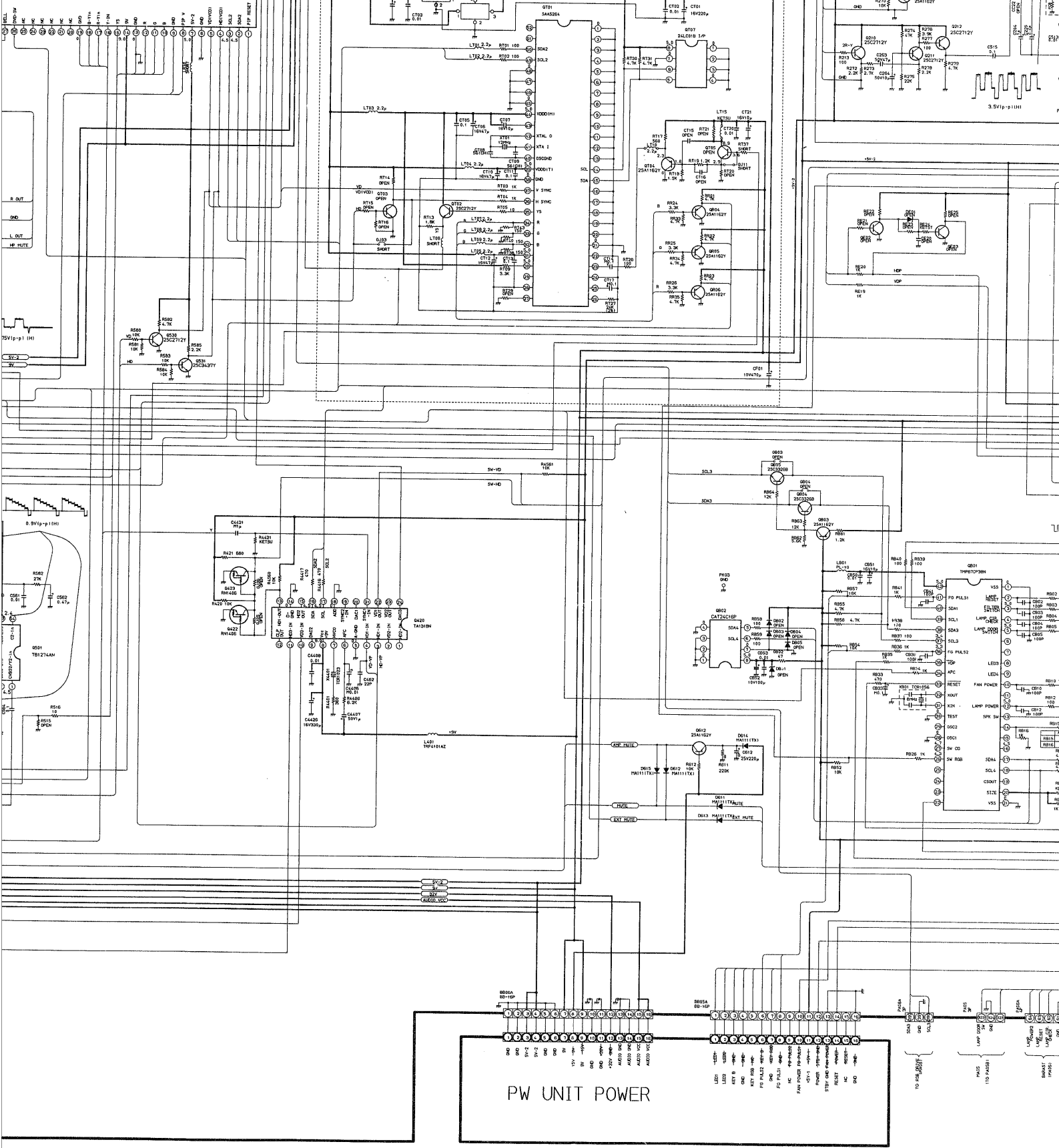
3809UXK	ZY01
E.A.H.C.T	MKMP32A
M.R	MKMM31



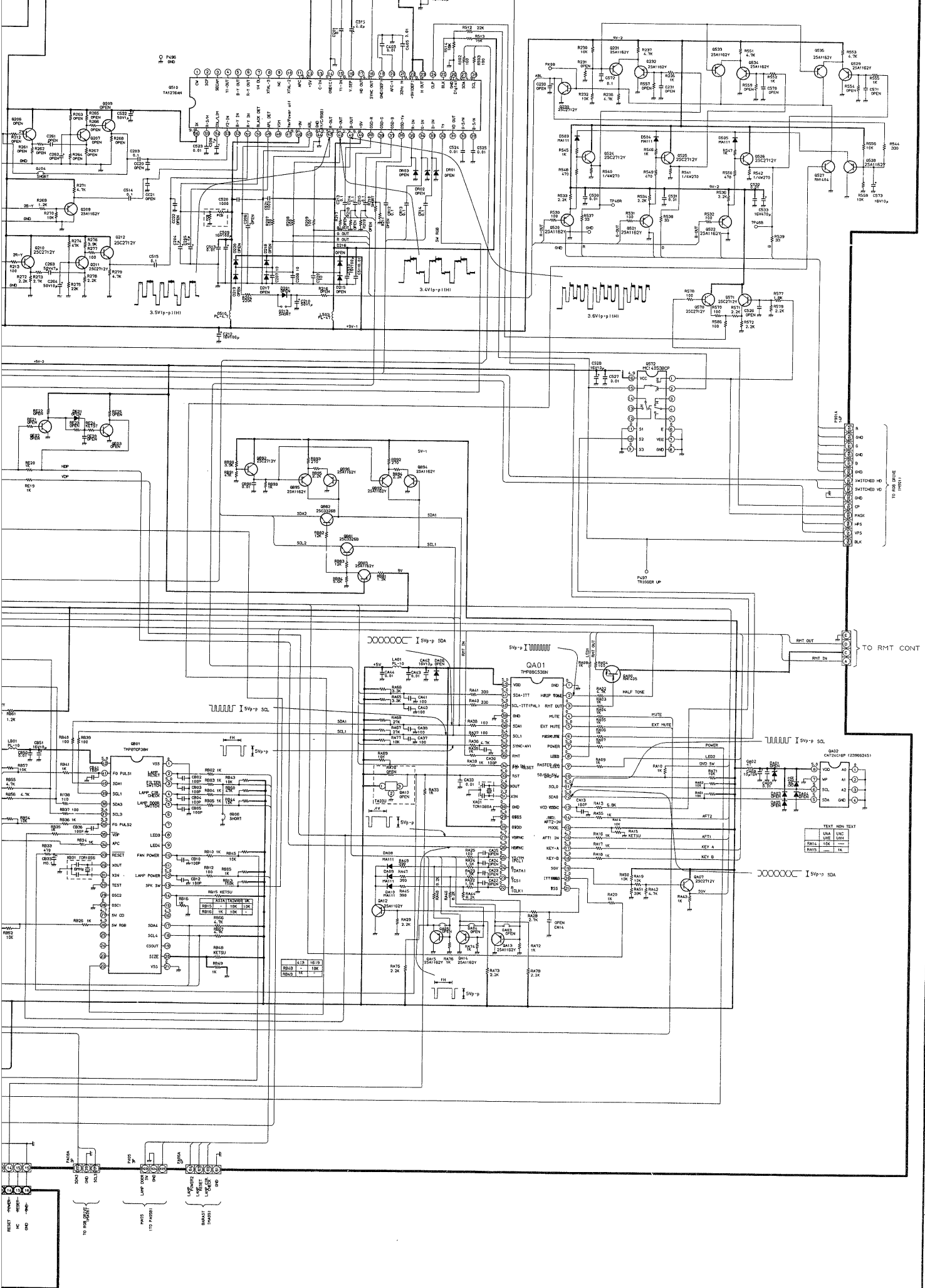
38D9UXK	TELETEXT
E.A.M.R	O
H.C.T	X

38D9UXK	ZY01
E.A.H.C.T	MKMP32A
M.R	MKMM31

ZY01 MULTI-WINDOW



PW UNIT POWER



SIGNAL
 38D9UXE 38D9UXR
 38D9UXA 38D9UXH
 38D9UXH 38D9UXM
 #K225

SCHEMATIC DIAGRAM

MODEL : 38D9UXE / 38D9UXA (2/5)
38D9UXH / 38D9UXR
38D9UXM

CAUTION: The international hazard symbol "A" in this schematic diagram and the parts list designate components which may be dangerous to life or limb if they are not properly installed, used, or repaired in accordance with original instructions. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not bypass the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages are measured across ground, line voltage 230 volts, colour bar signal. Voltages reading may vary ±5%.
2. Waveforms are measured at the test points.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that **CONTRAST** and **COLOUR** controls are in mid position and **VOL** control is turned to minimum position for other controls to test picture.

NOTES:

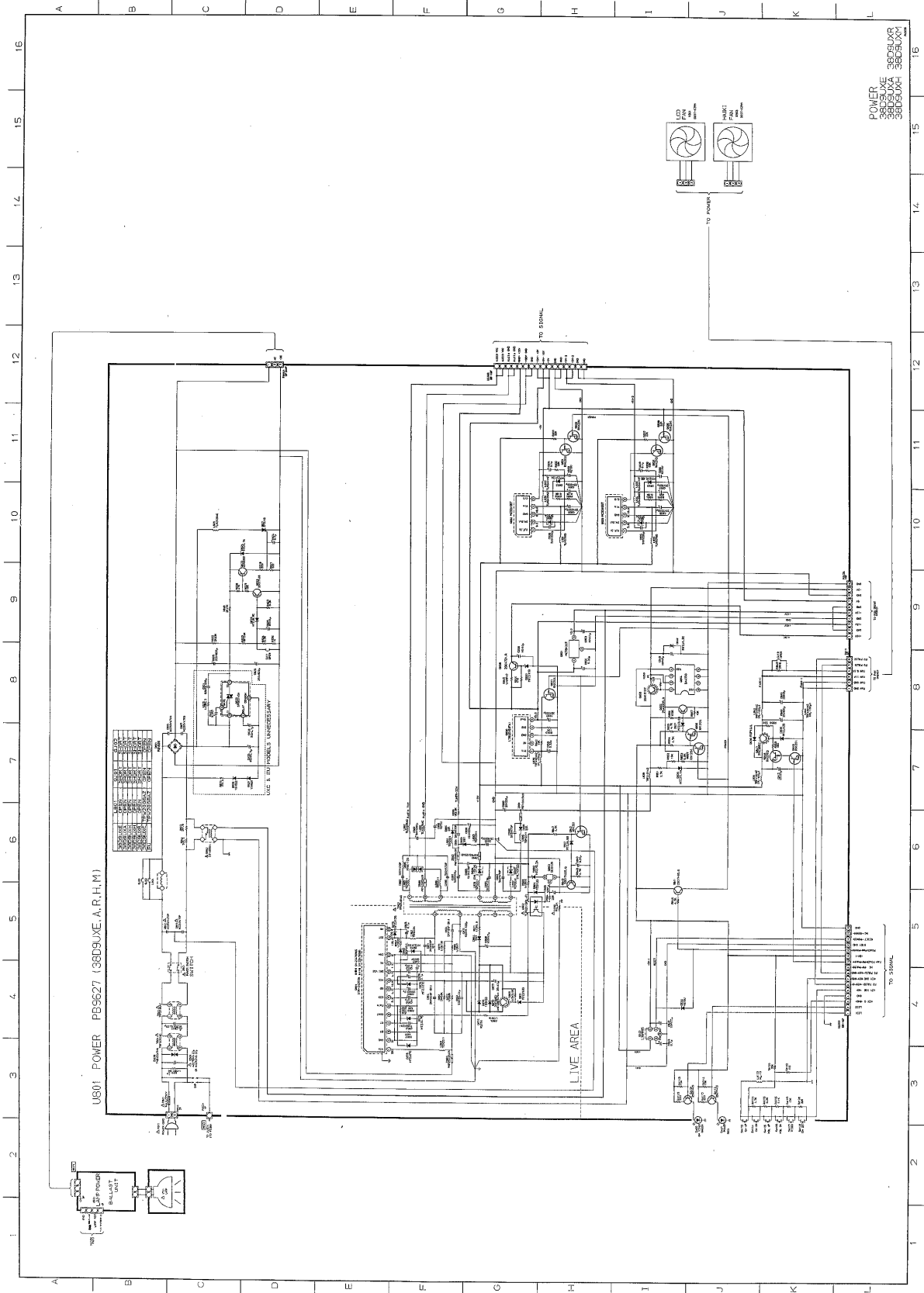
1. Inductance values of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. Inductor values more than 1 are expressed in mH.
3. Inductor values less than 1 are expressed in μ H.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, m=1,000, μ =1,000,000
2. Inductor values more than 1 are expressed in mH and the value more than 1 μ H are expressed in μ H, and the value less than 1 are expressed in nH.

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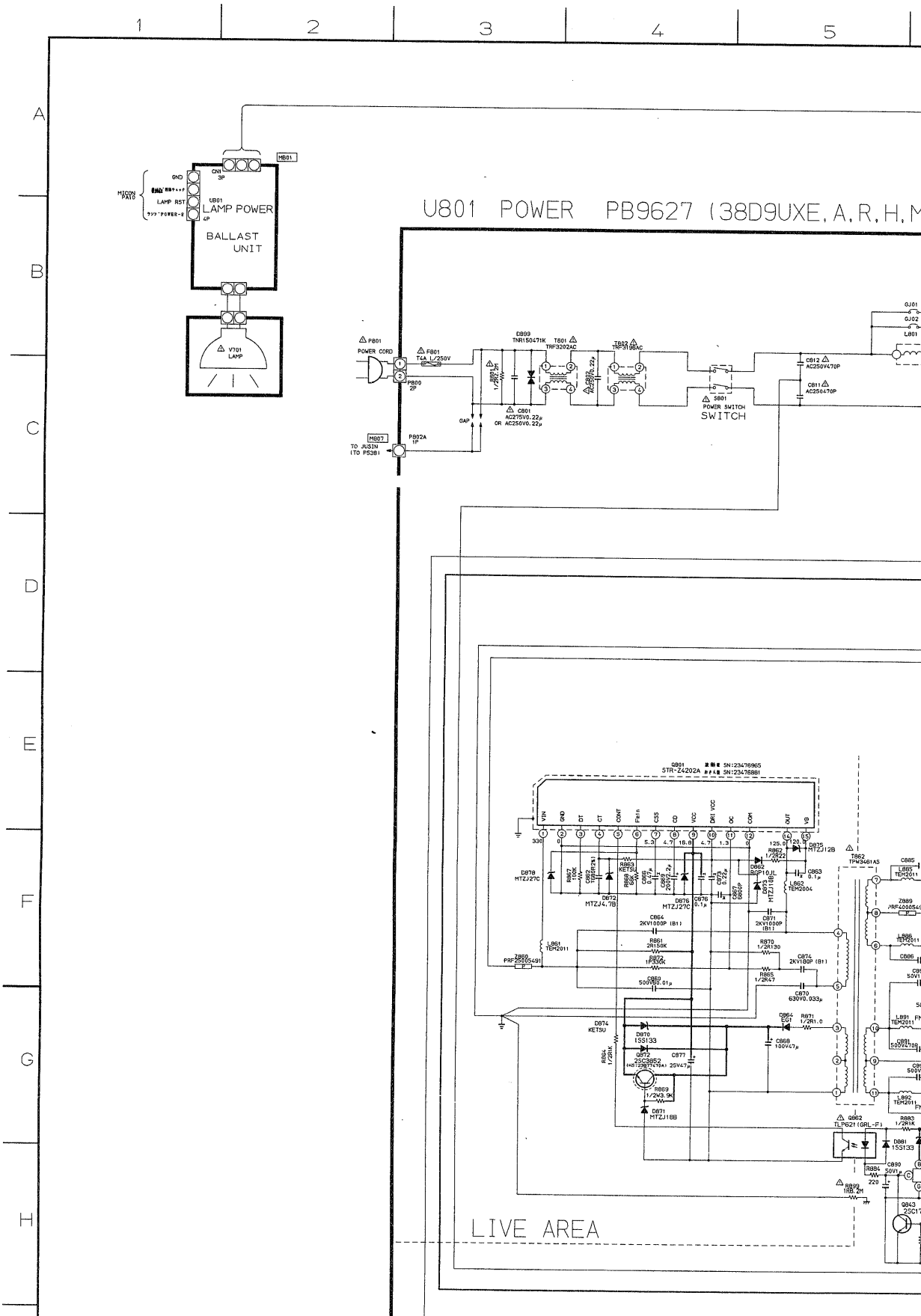
SCHEMATIC DIAGRAM MODEL : 38D9UXE / 38D9UXA (2/5) 38D9UXH / 38D9UXR 38D9UXM

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to volts, colour bar signal. Voltages reading may vary.
2. All waveforms are taken using a wide band oscilloscope.
3. Waveforms are taken using a standard colour picture tube.
4. Make sure that CONTRAST and COLOUR controls are set to normal. BRIGHTNESS control is almost in maximum position.

40200005



S AND WAVEFORMS

From point shown to chassis ground, line voltage 220 V. Voltage reading may vary $\pm 20\%$.

Using a wide band oscilloscope and a low capacity probe. Use a standard colour bar signal.

T and COLOUR controls are in mid position and VOLUME in maximum position. Set other controls for best results.

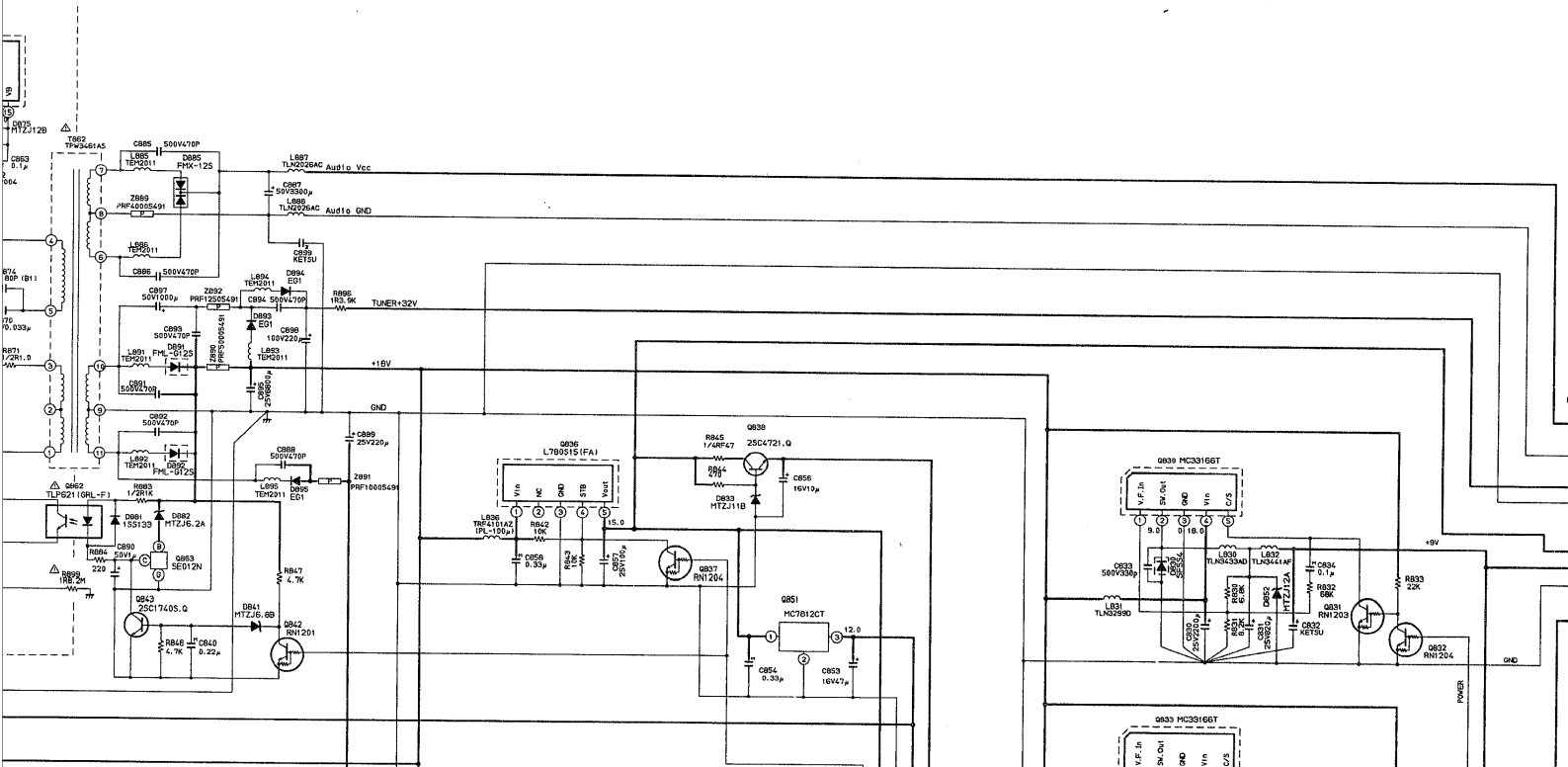
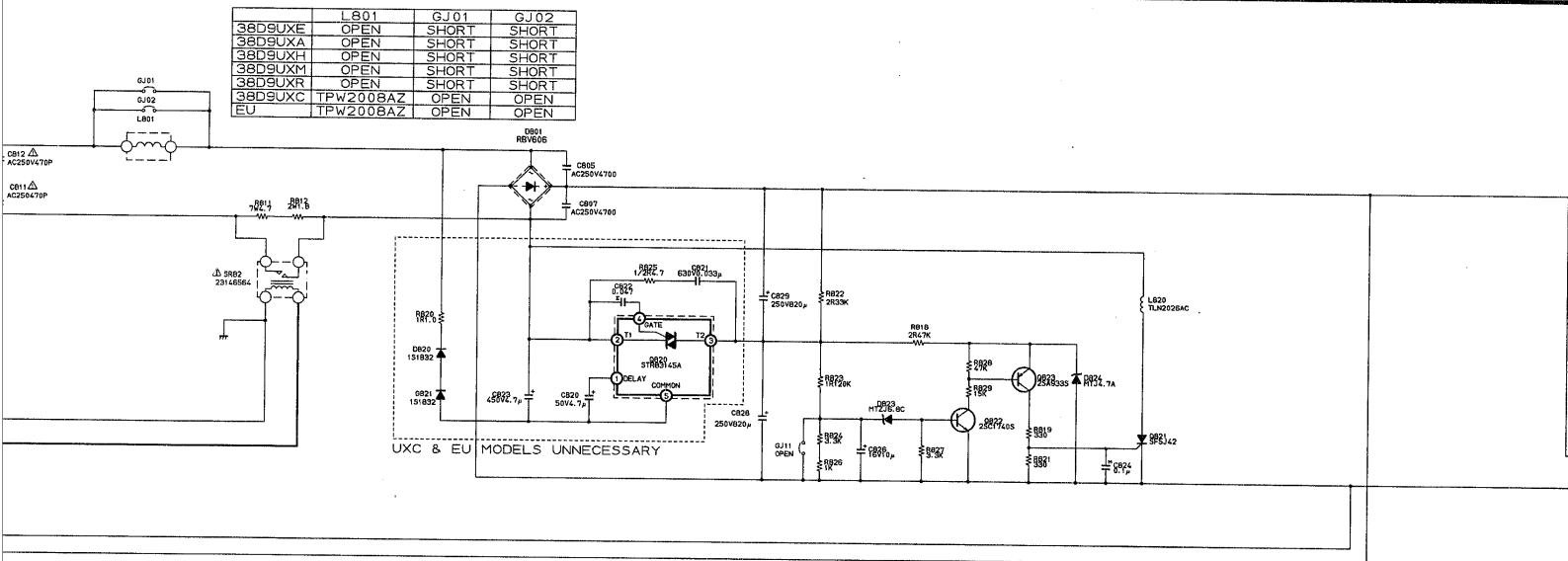
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

5 | 6 | 7 | 8 | 9 | 10 | 11

(E, A, R, H, M)

	L801	GJ01	GJ02
38D9UXE	OPEN	SHORT	SHORT
38D9UXA	OPEN	SHORT	SHORT
38D9UXH	OPEN	SHORT	SHORT
38D9UXM	OPEN	SHORT	SHORT
38D9UXR	OPEN	SHORT	SHORT
38D9UXC	TPW200BAZ	OPEN	OPEN
EU	TPW200BAZ	OPEN	OPEN

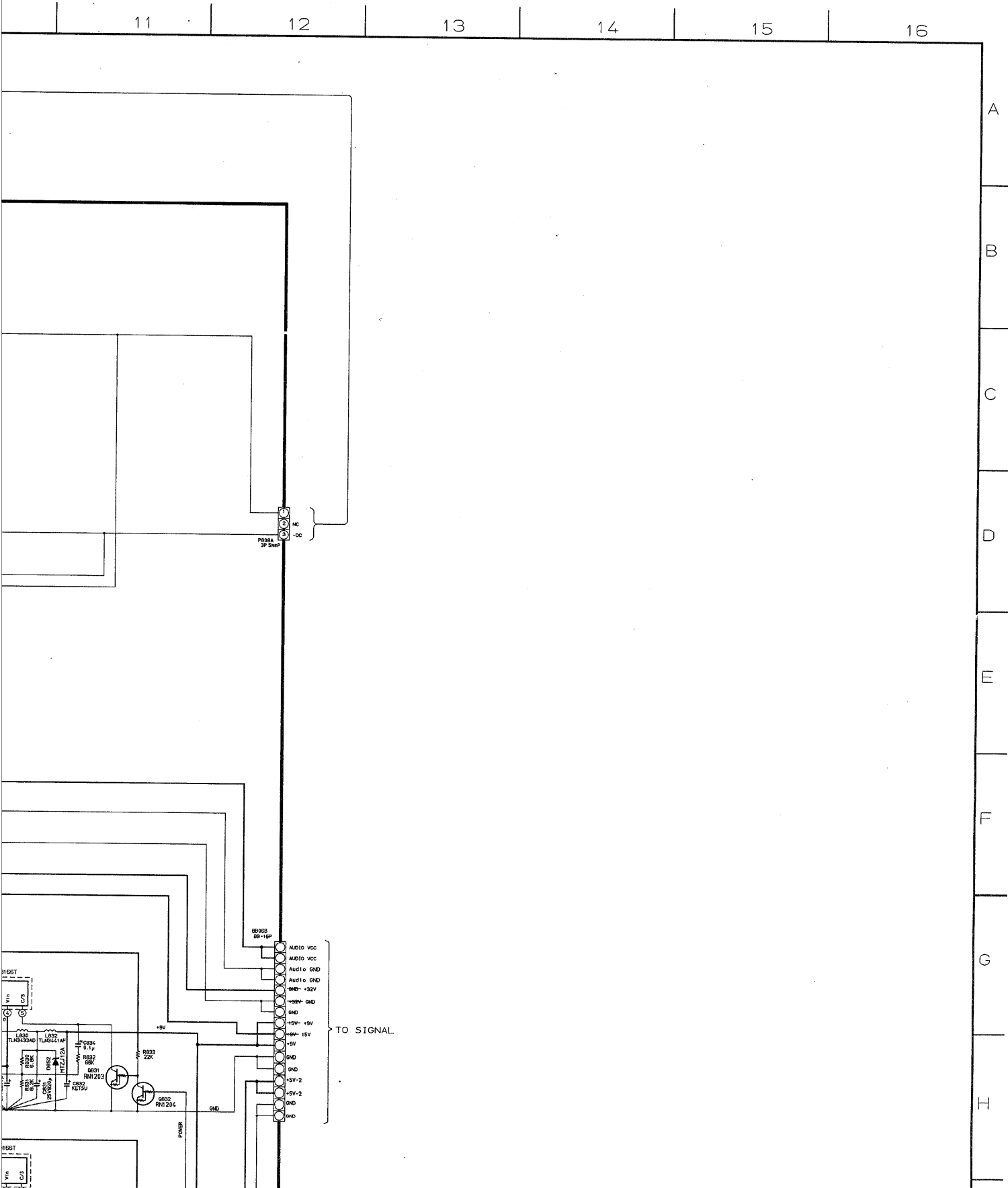


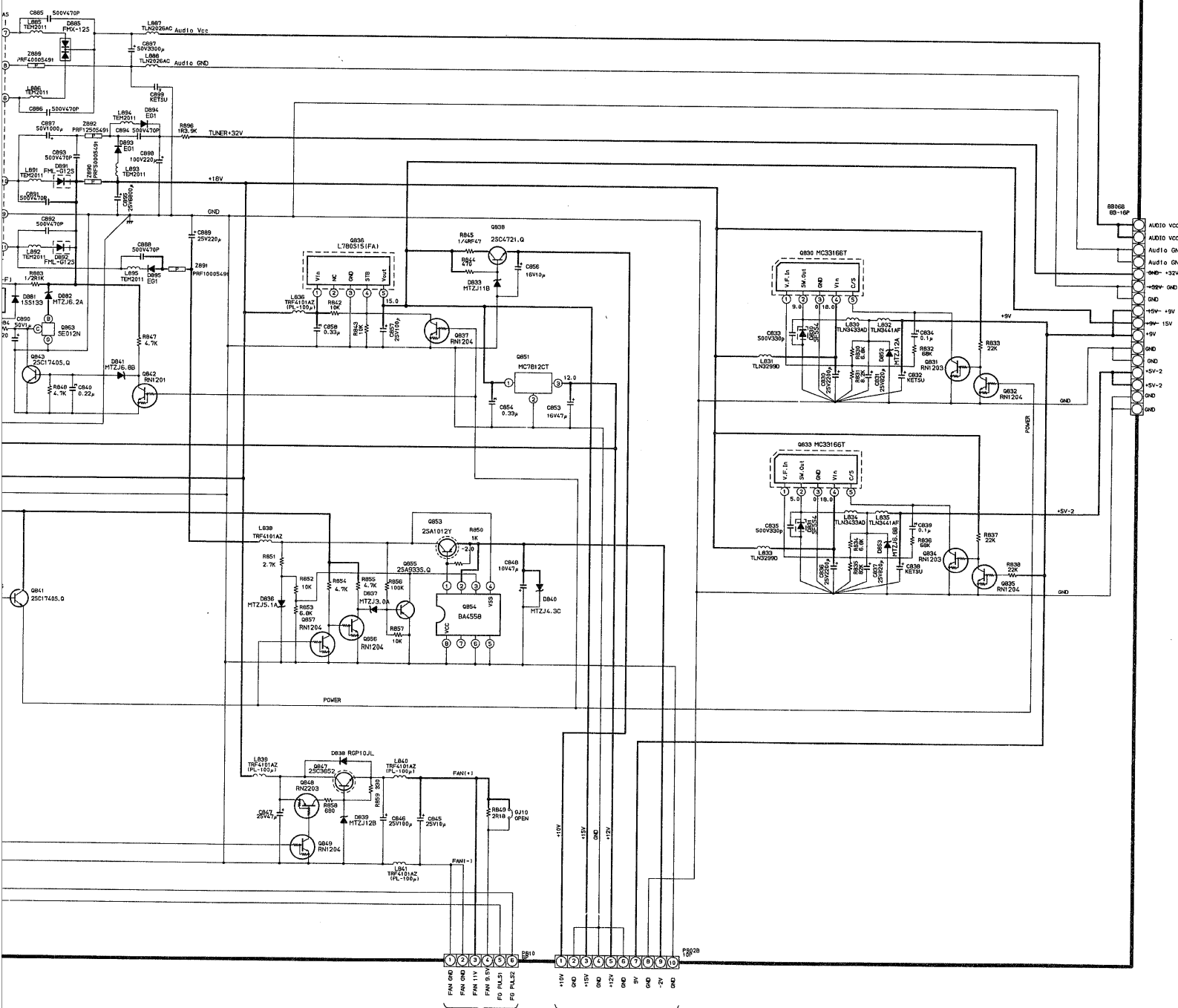
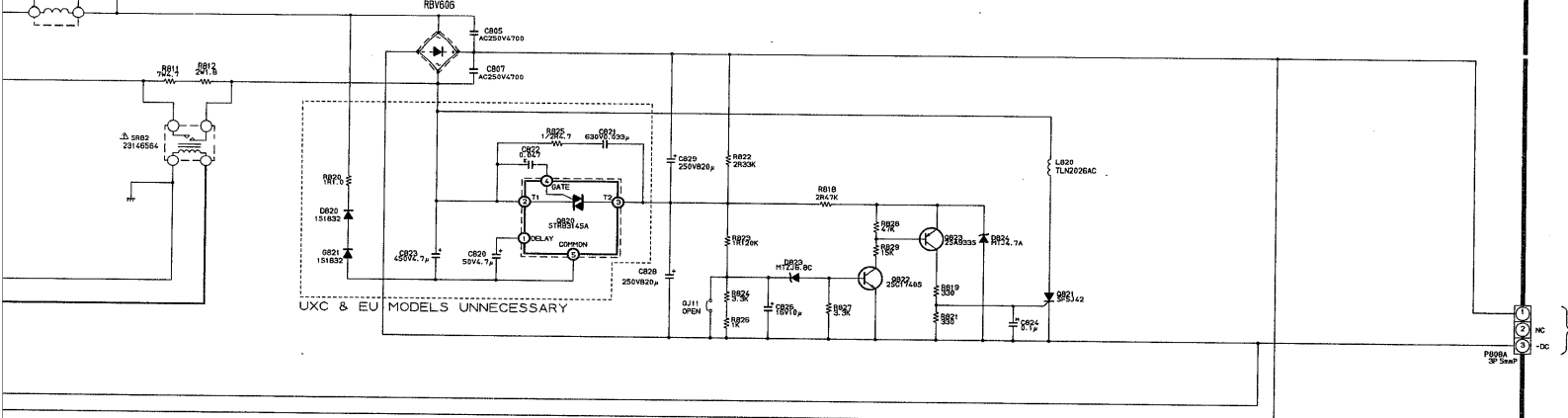
EXPRESSION

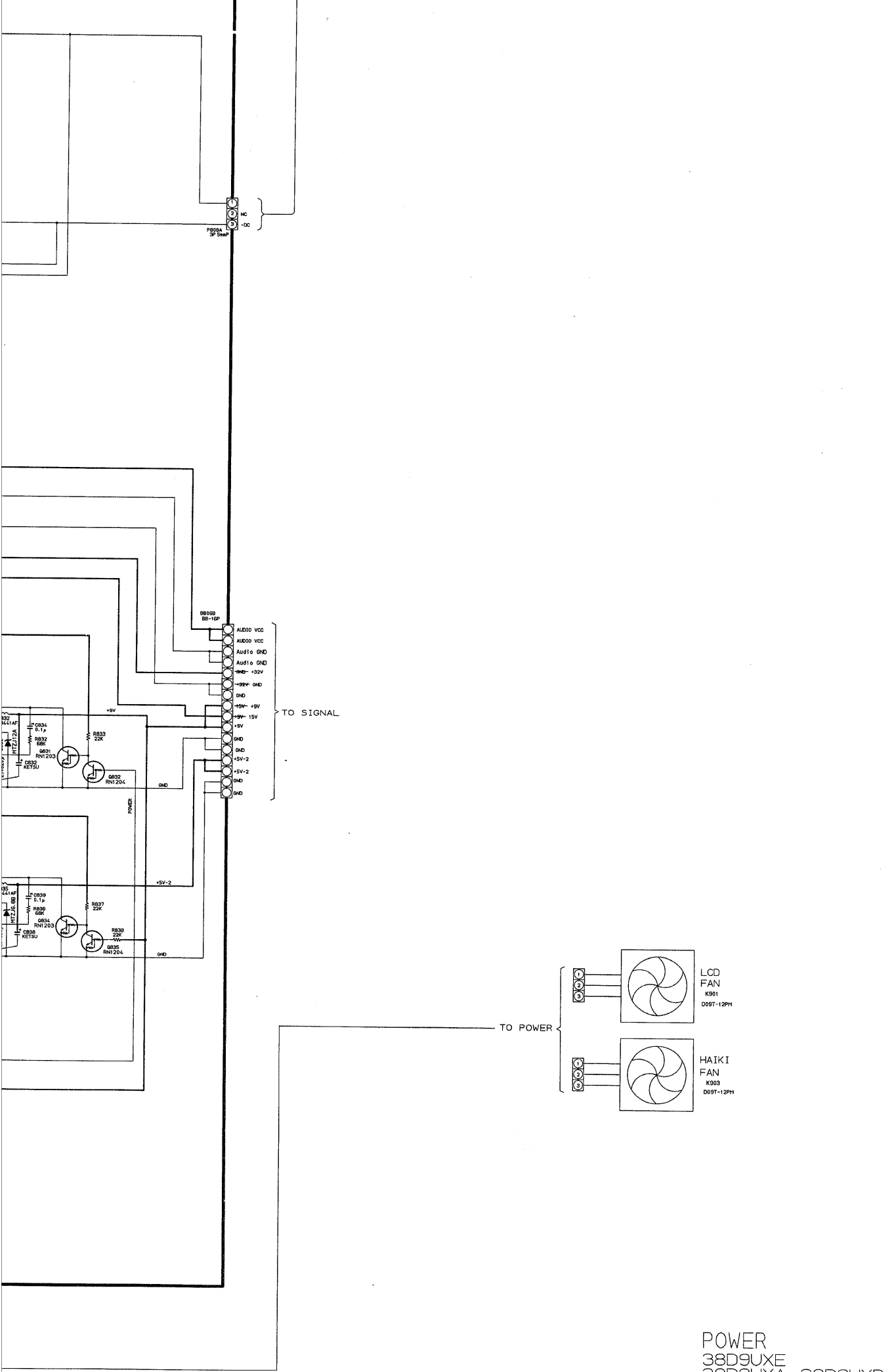
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

is schematic dia-







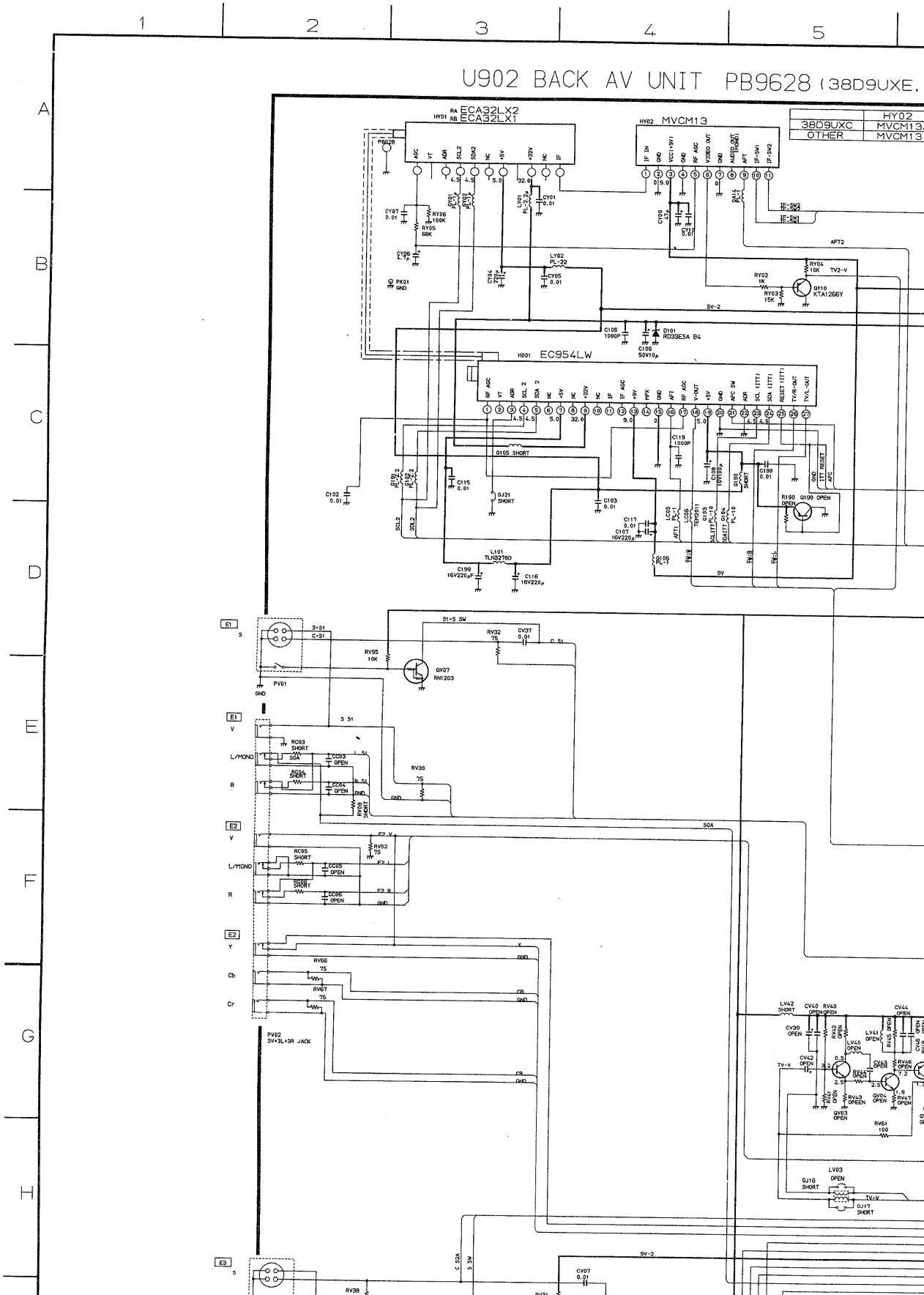
C
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POWER
38D9UXE
38D9UXA 38D9UXR
38D9UXH 38D9UXM

1. Voltages read with VTVM from point shown to c volts, colour bar signal. Voltages reading may v
2. All waveforms are taken using a wide band oscillo
3. Waveforms are taken using a standard colour ba
4. Make sure that CONTRAST and COLOUR con
BRIGHTNESS control is almost in maximum posi
picture.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

40200005



AND WAVEFORMS

om point shown to chassis ground, line voltage 220
 stages reading may vary ±20%.
 g a wide band oscilloscope and a low capacity probe.
 a standard colour bar signal.
 F and COLOUR controls are in mid position and
 bst in maximum position. Set other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

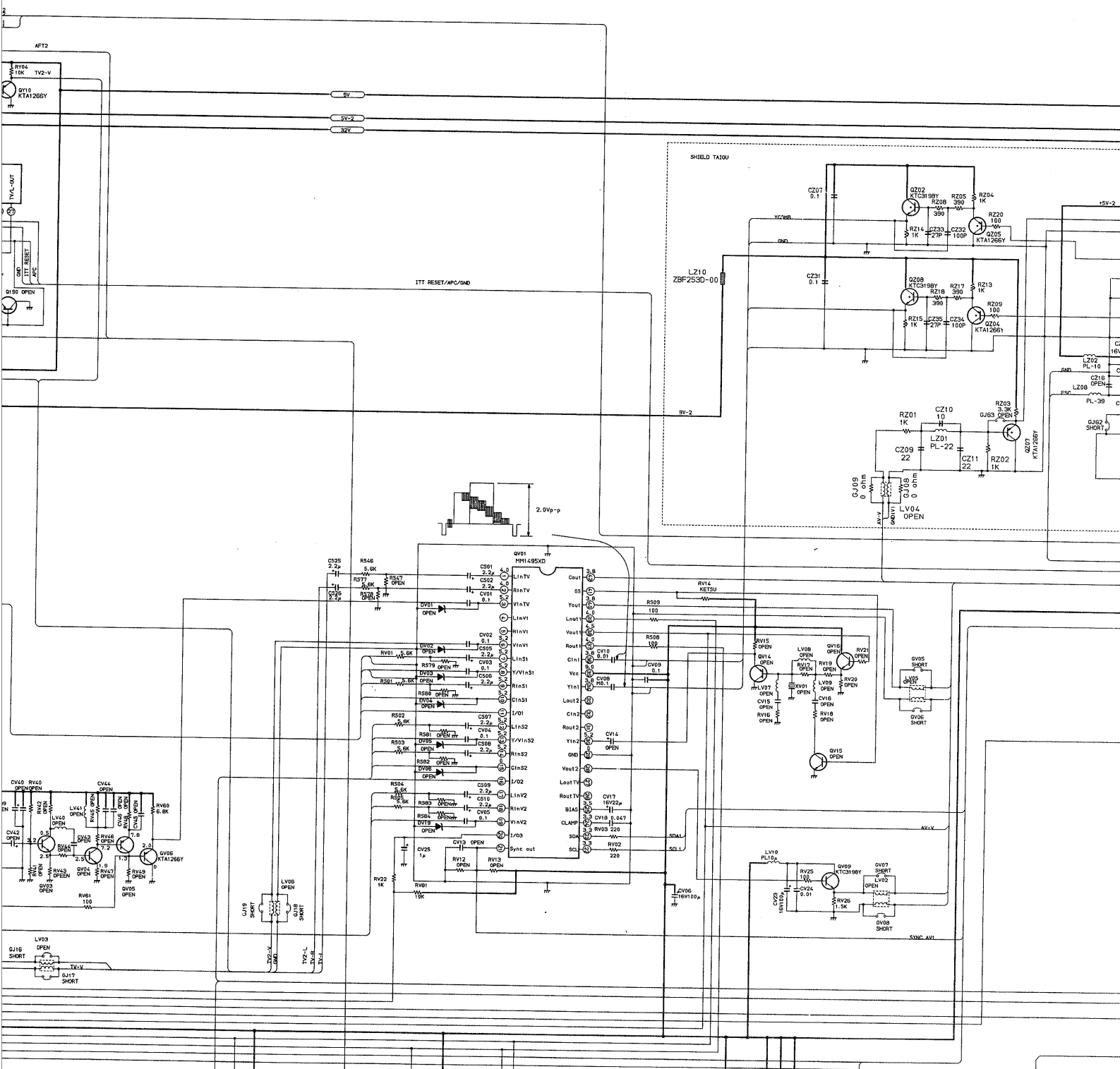
EXI

- VAL
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 3. U
- se
 se



8 (38D9UXE, A. R. H. M)

	HY02
38D9UXC	MVCM13A
OTHER	MVCM13



EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

is schematic dia-

11

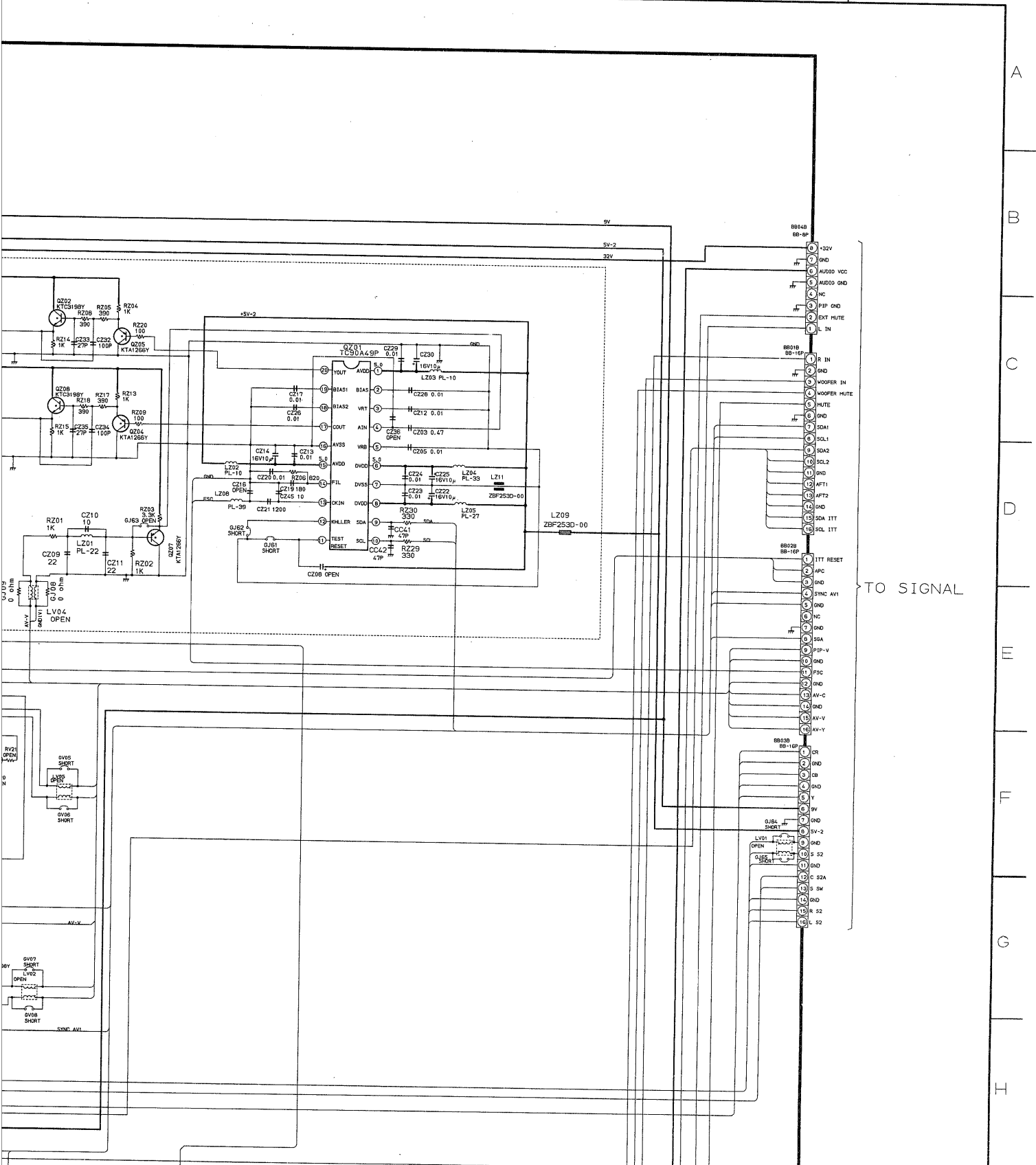
12

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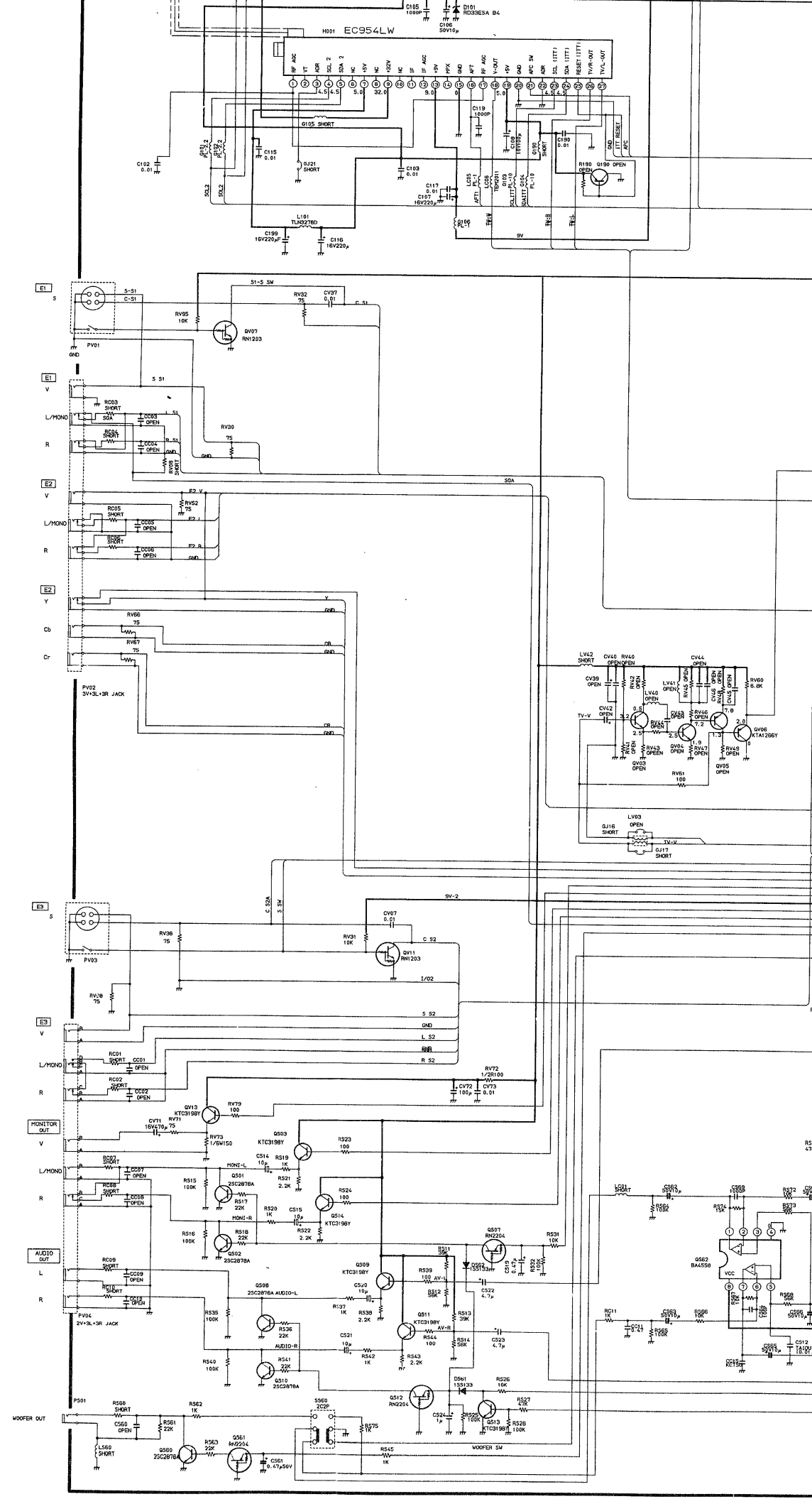
14

15

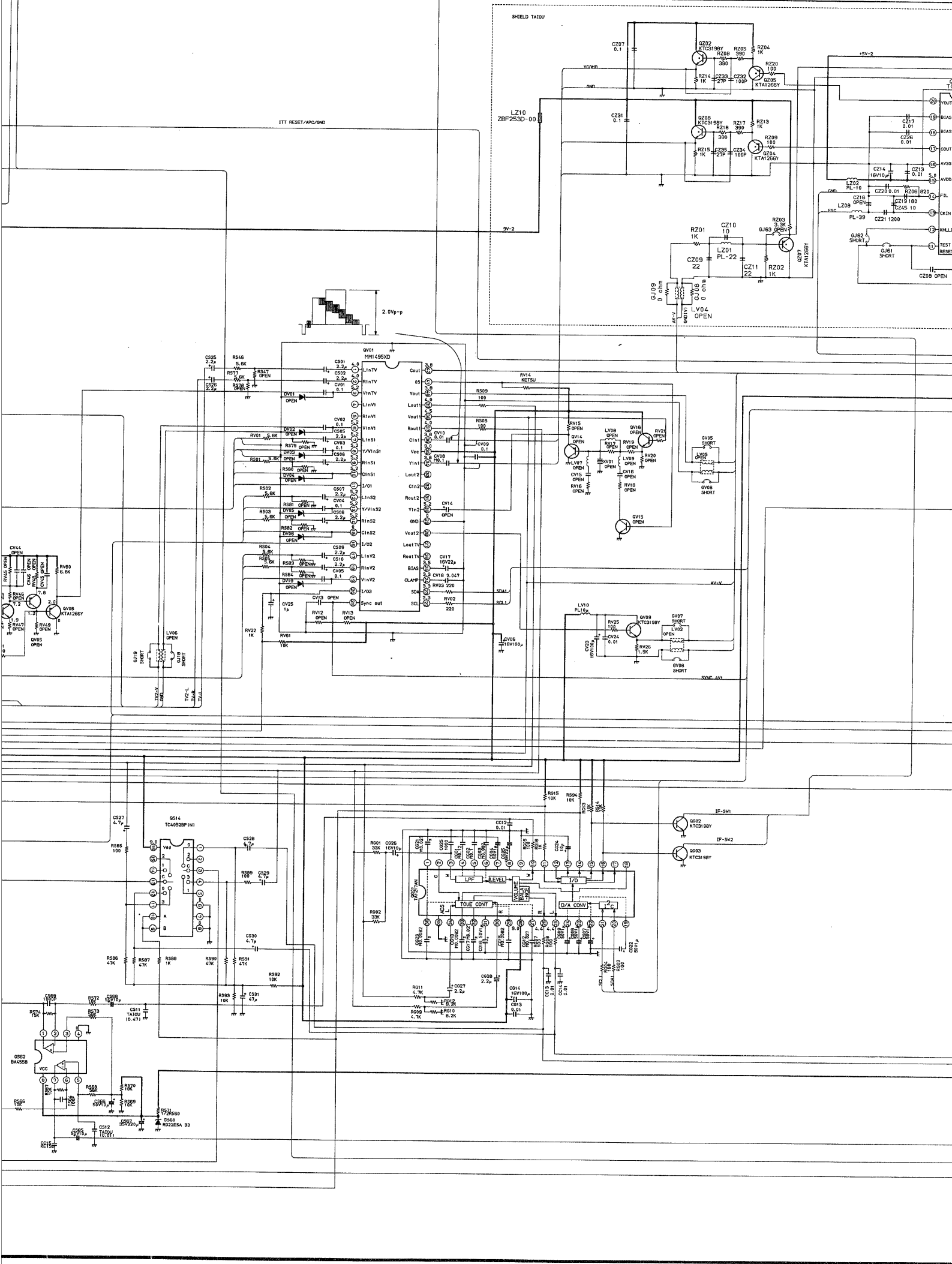
16

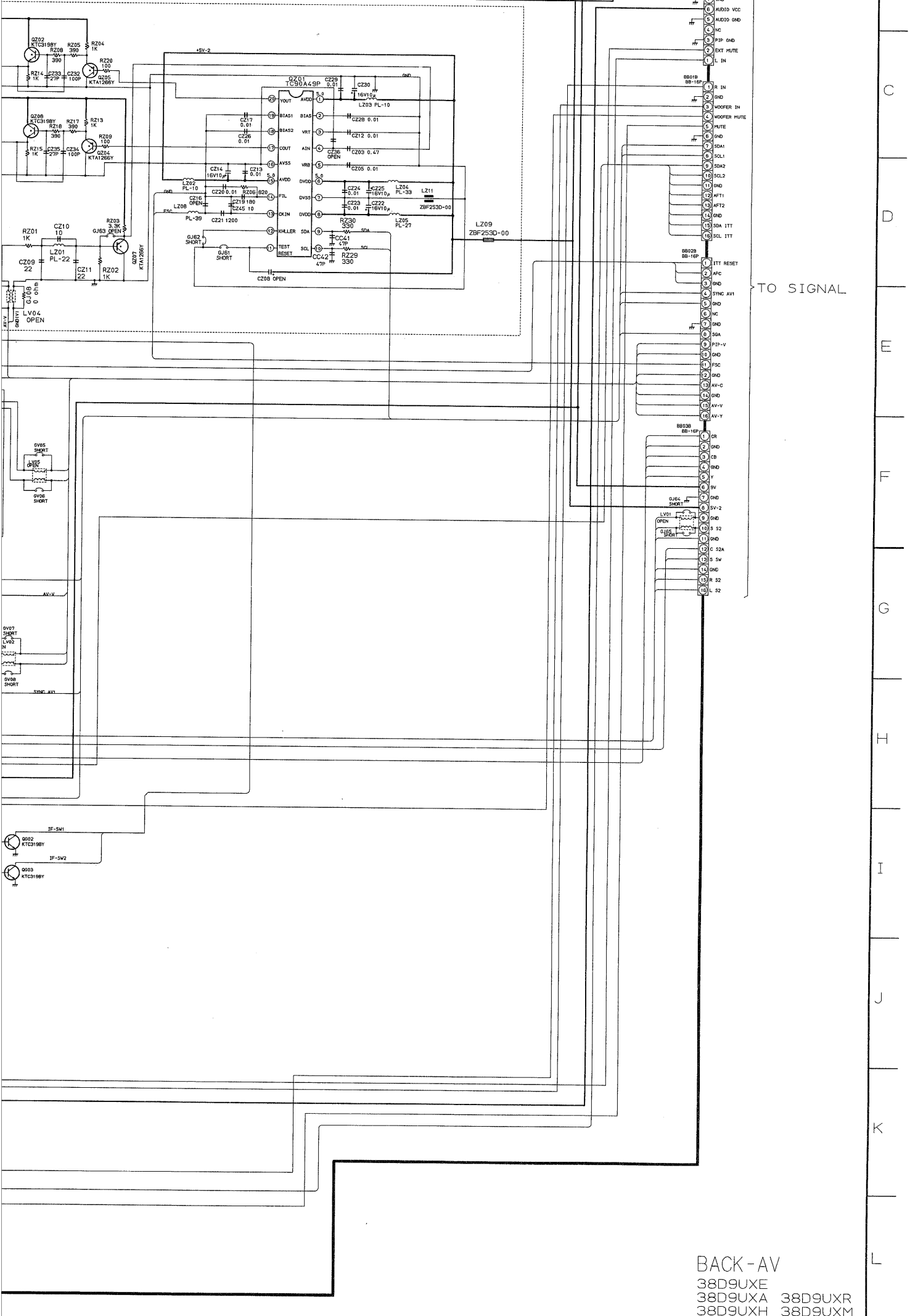


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1 2 3 4 5 6





BACK-AV
 38D9UXE
 38D9UXA 38D9UXR
 38D9UXH 38D9UXM
 PK3227

SCHEMATIC DIAGRAM MODEL: 38D9UXE / 38D9UXA (4/5)

38D9UXH / 38D9UXR

38D9UXM

CAUTION: The international hazard symbol, Δ , in the schematic diagram and the parts list designates a hazardous voltage. Before replacing any of these components, consult the PRECAUTIONS section of the PRODUCT SAFETY NOTICE on page 4. Do not attempt to service this equipment through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220.
2. All color bar signs, unless otherwise noted, indicate low-capacity probes.
3. Waveforms are shown using a standard color bar signal.
4. BRIGHTNESS control is aimed at maximum position. See other controls for best picture.

NOTES:

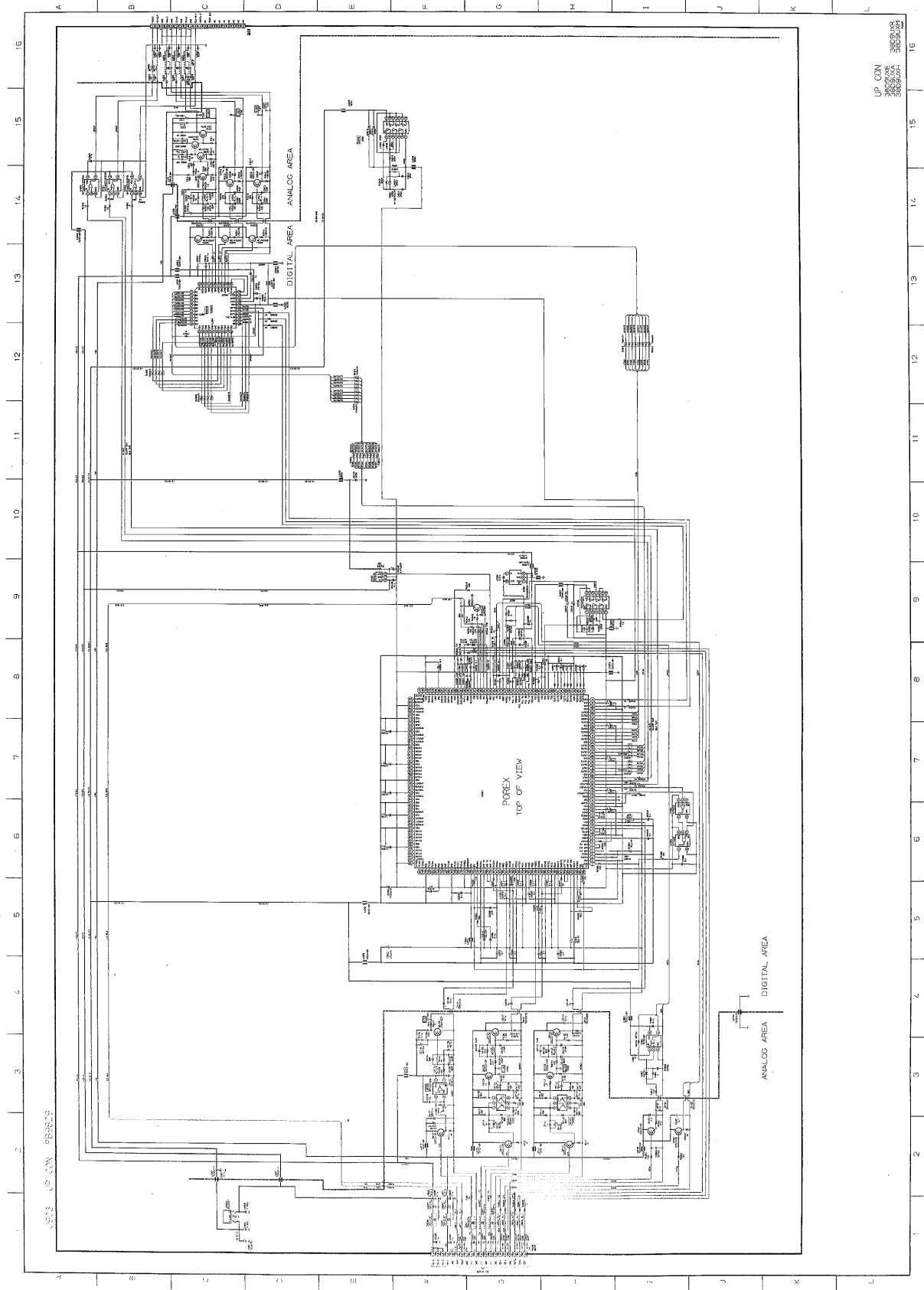
1. D.C. resistance value of a principal transformer is shown in this schematic diagram.
2. The values are subject to change without notice.
3. \bullet Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless other value noted in schematic, all capacitor values less than 1 are expressed in pF, and the values less than 1 in H.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in mH, and the values less than 1 in H.

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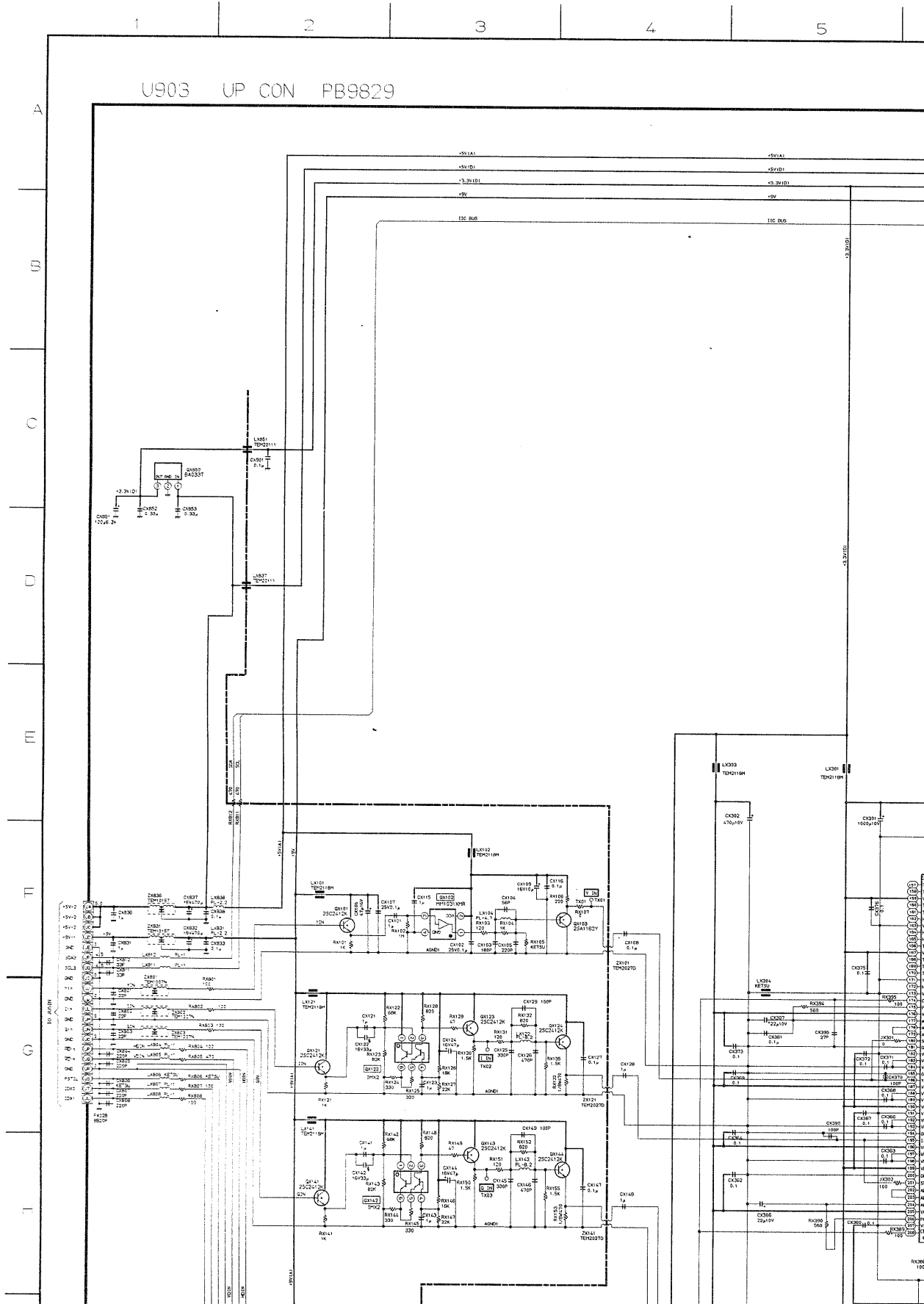


UP CON
38D9UXA
38D9UXR
38D9UXM

1. Voltages read with VTVM from point shown to volts, colour bar signal. Voltages reading may
2. All waveforms are taken using a wide band oscill
3. Waveforms are taken using a standard colour b
4. Make sure that CONTRAST and COLOUR co
BRIGHTNESS control is almost in maximum pos
picture.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

40200005



AND WAVEFORMS

n point shown to chassis ground, line voltage 220
 ges reading may vary $\pm 20\%$.
 a wide band oscilloscope and a low capacity probe.
 standard colour bar signal.
 and COLOUR controls are in mid position and
 st in maximum position. Set other controls for best

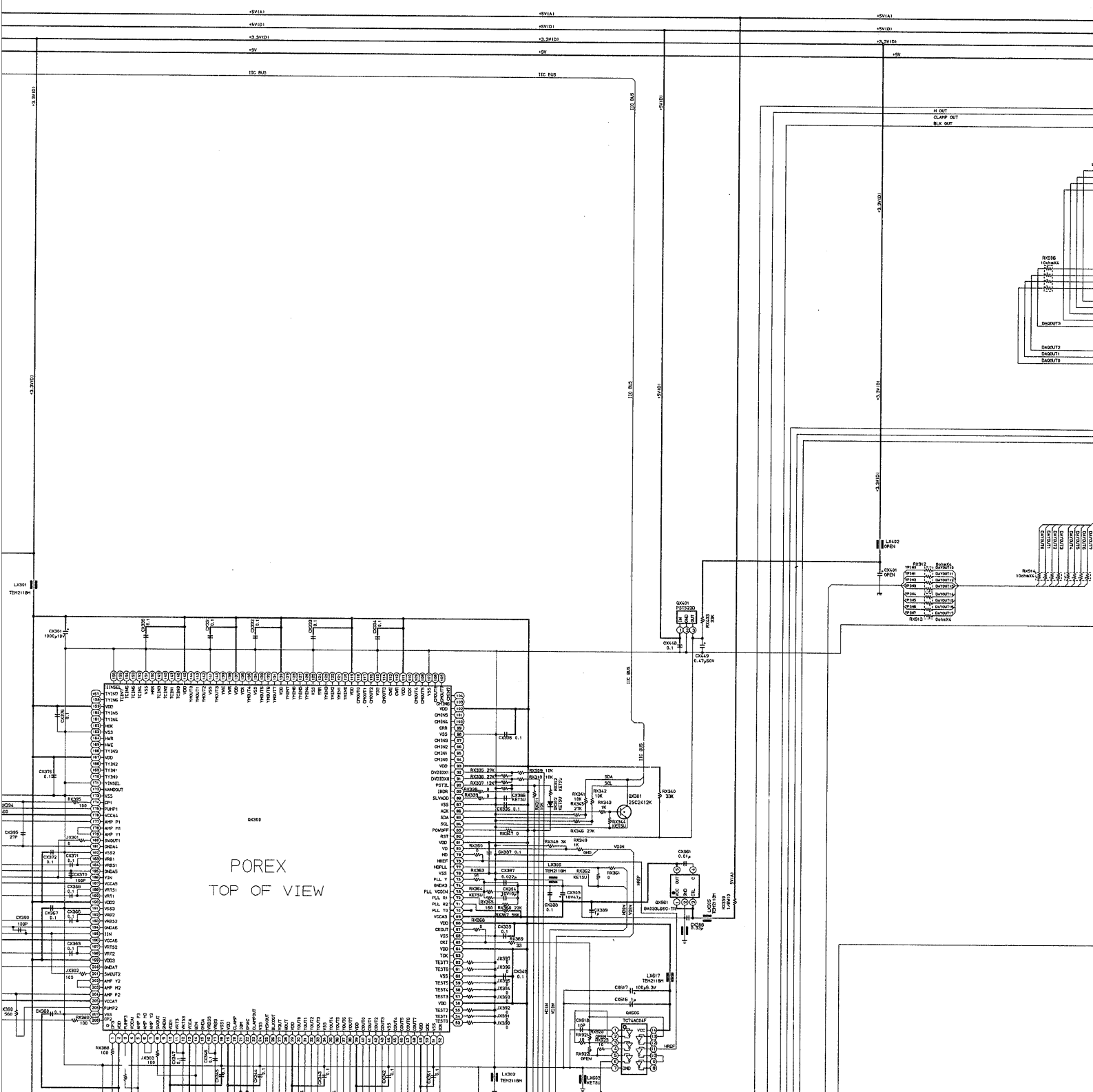
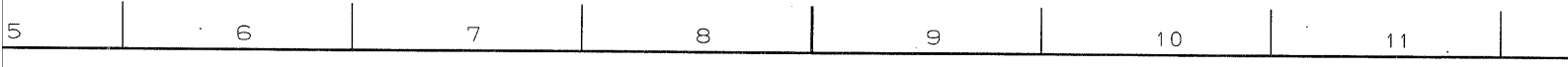
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

EXP

VALU

1. Res
2. Unl
3. Unl

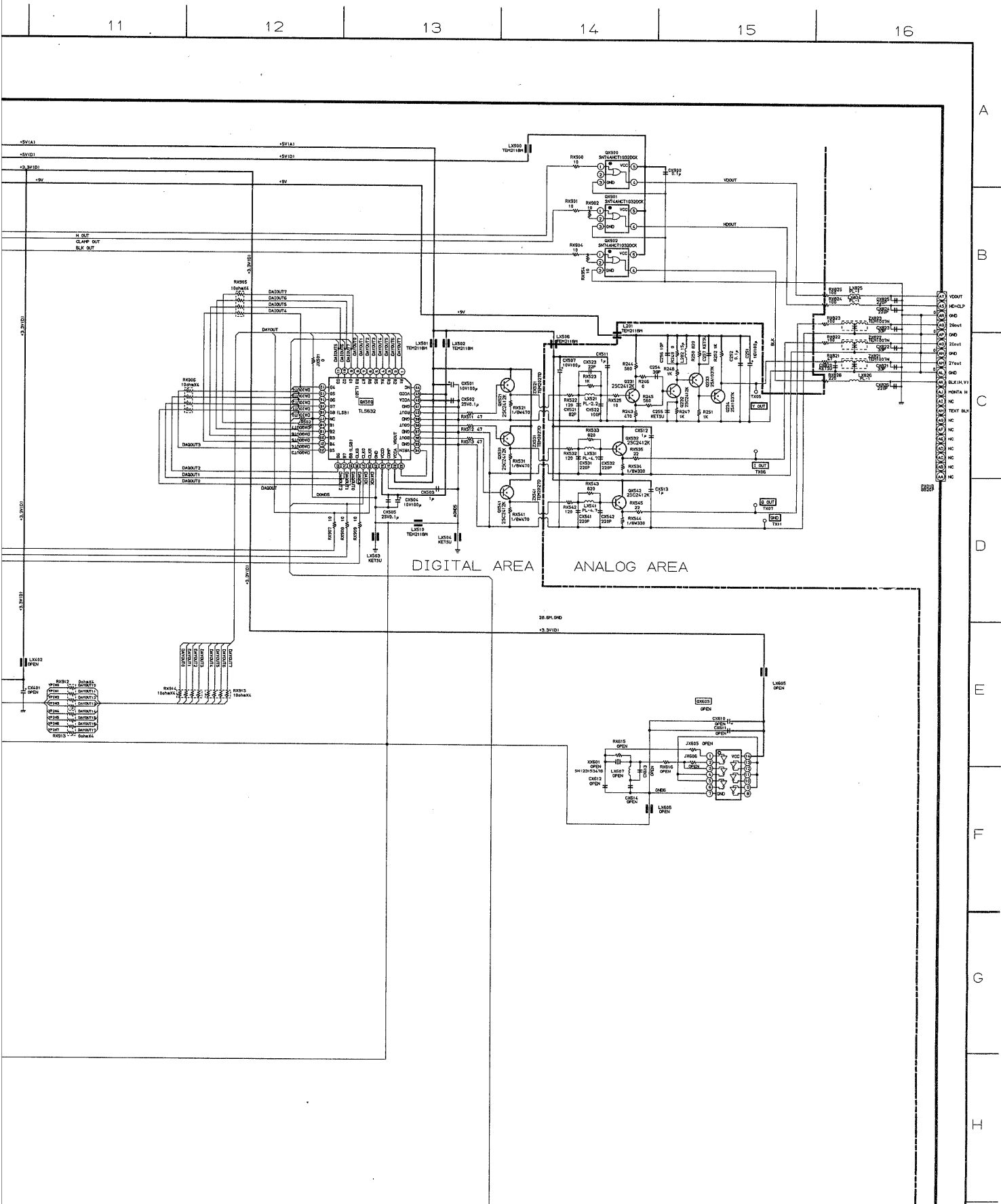


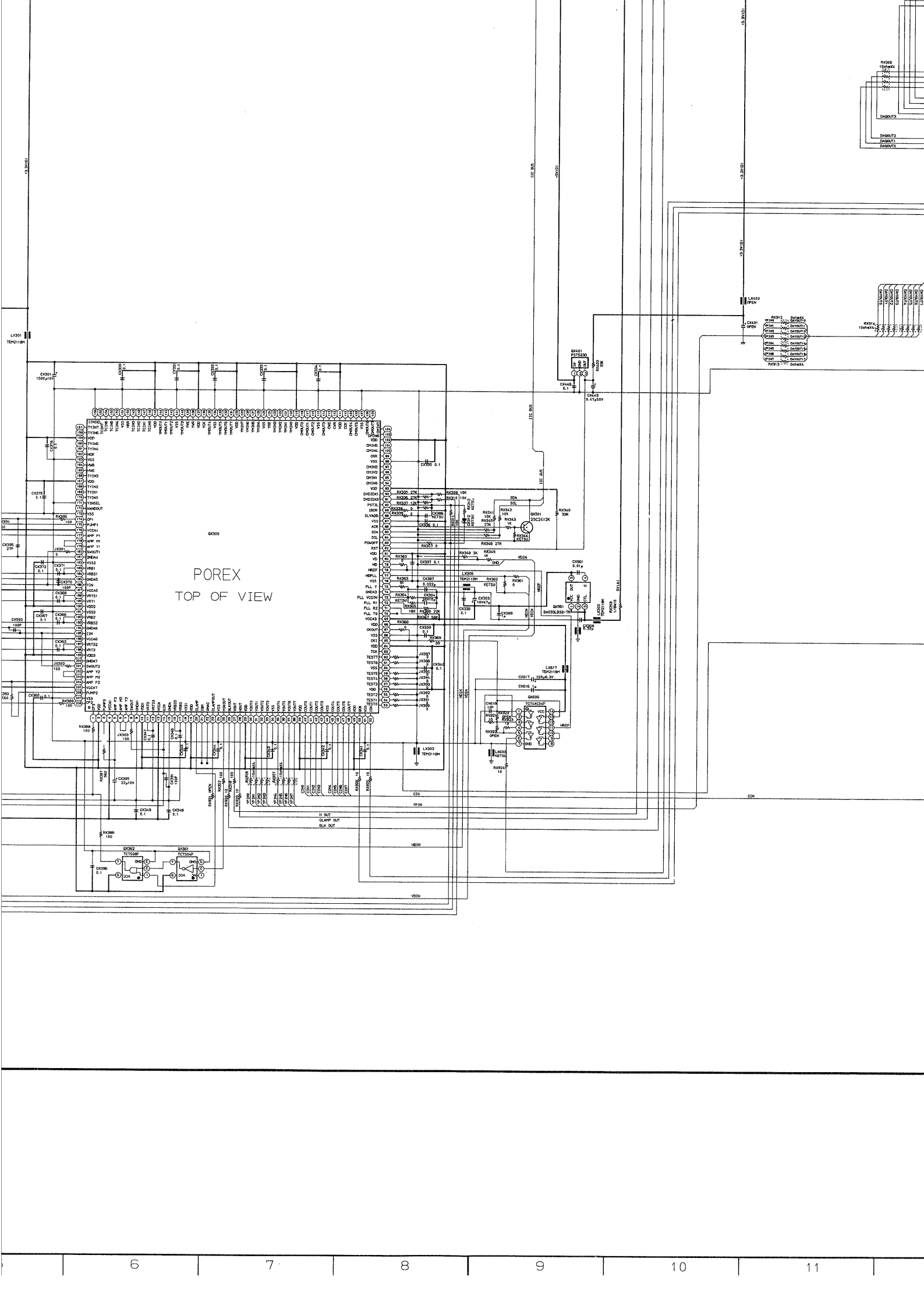
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

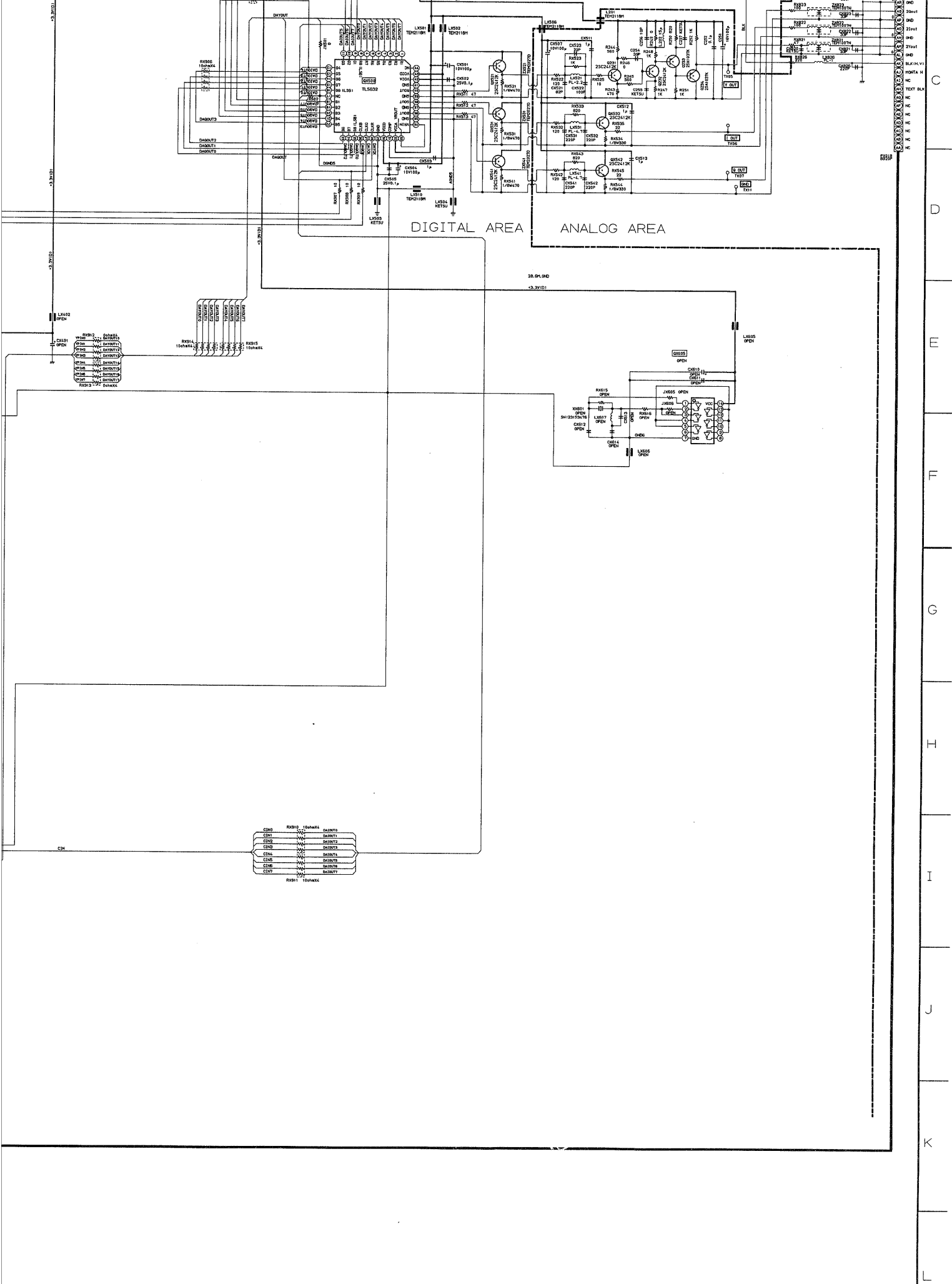
1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

Schematic dia-





POREX
TOP OF VIEW



UP CON
 38D9UXE
 38D9UXA
 38D9UXH
 38D9UXR
 38D9UXM
 P3229

SCHEMATIC DIAGRAM

**MODEL : 38D9UXE / 38D9UXA
38D9UXH / 38D9UXR**

38D9UXM

CAUTION: The alternational heard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important to safety. These components are different from those with original. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not degrade the safety of the receiver through improper servicing.

DESCRIPTION OF WAVEFORMS AND WARNINGS

- 1. Waveform and VTM from each shown to chassis ground. (line voltage 230 volts, colour bar signal. Voltages reading may vary 20%.)
- 2. Waveforms are taken using a standard colour bar signal.
- 3. Waveforms are taken using a standard colour bar signal.
- 4. WAVEFORMS ARE TAKEN FROM THE POINTS SHOWN IN THE SCHEMATIC DIAGRAM.

NOTES:

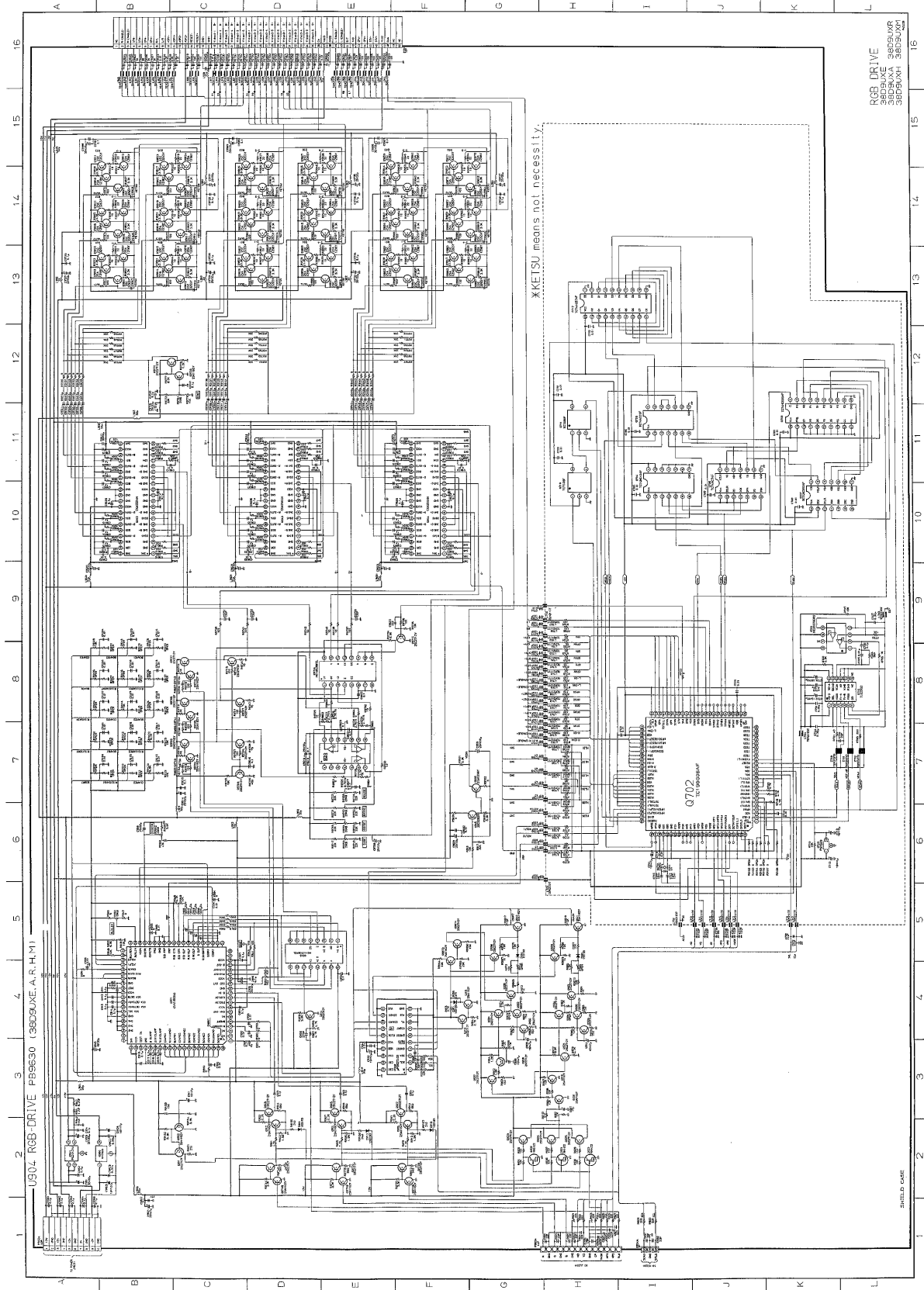
- 1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
- 2. Values are given in ohms, unless otherwise indicated.
- 3. Slider link.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR, AND INDUCTOR

- 1. Resistance is shown in ohms, k=1,000, M=1,000,000.
- 2. Unless other note noted in schematic, all capacitor values less than 1 are expressed in pF, and the values more than 1 are expressed in μ F, and the values less than 1 in H.

40200005

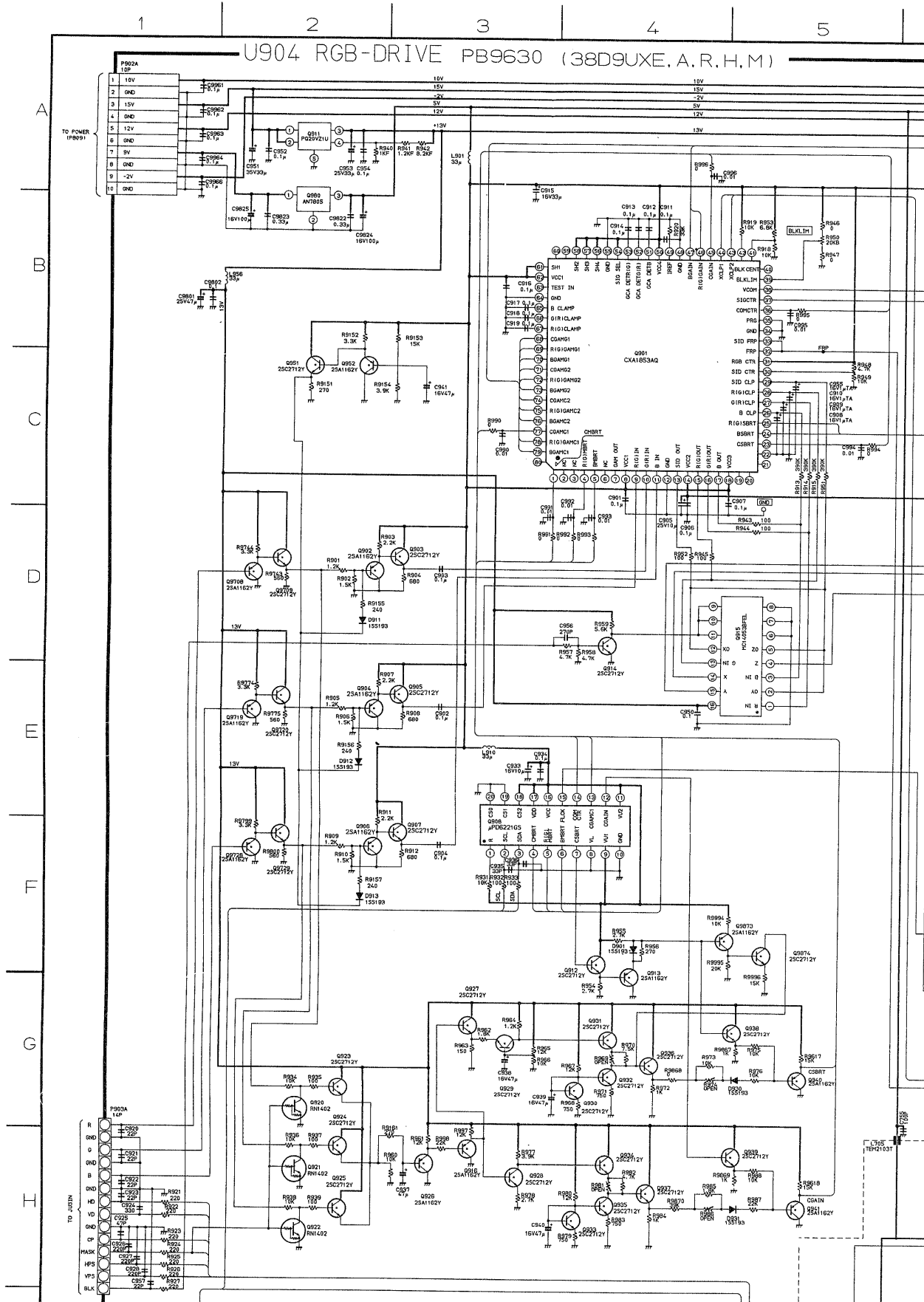


SHIELD CASE

1. Voltages read with VTVM from point shown to c volts, colour bar signal. Voltages reading may v
2. All waveforms are taken using a wide band oscillo
3. Waveforms are taken using a standard colour ba
4. Make sure that CONTRAST and COLOUR con
BRIGHTNESS control is almost in maximum pos
picture.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

40200005



ND WAVEFORMS

point shown to chassis ground, line voltage 220
 es reading may vary $\pm 20\%$.
 wide band oscilloscope and a low capacity probe.
 andard colour bar signal.
 nd COLOUR controls are in mid position and
 in maximum position. Set other controls for best

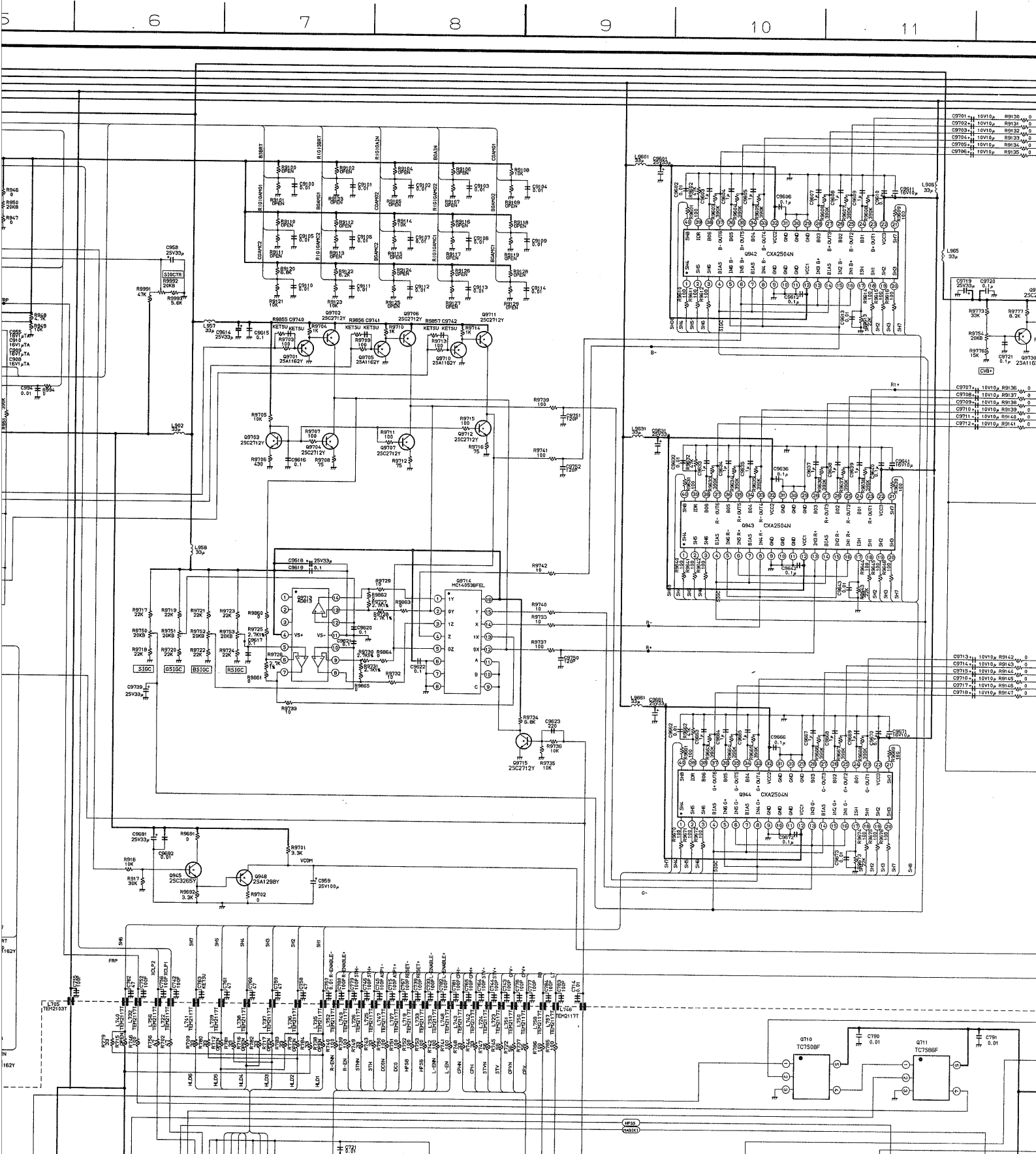
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. \bullet : Solder links.

EXPR

VALUE

1. Resis
2. Unles
3. Unles

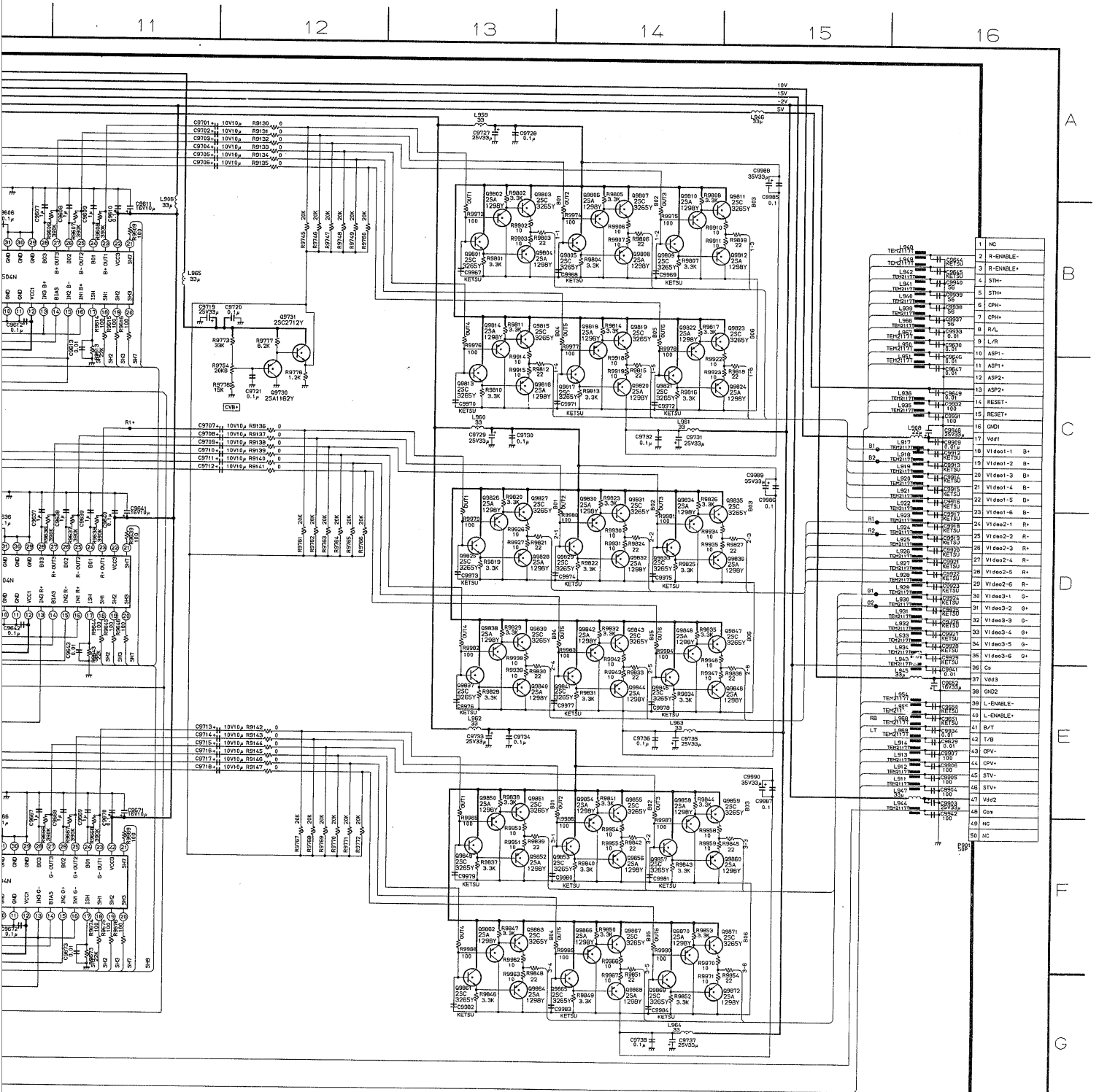


EXPRESSION

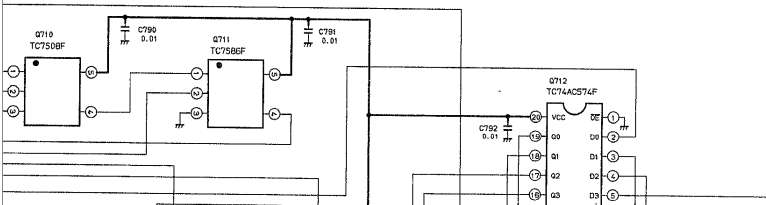
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

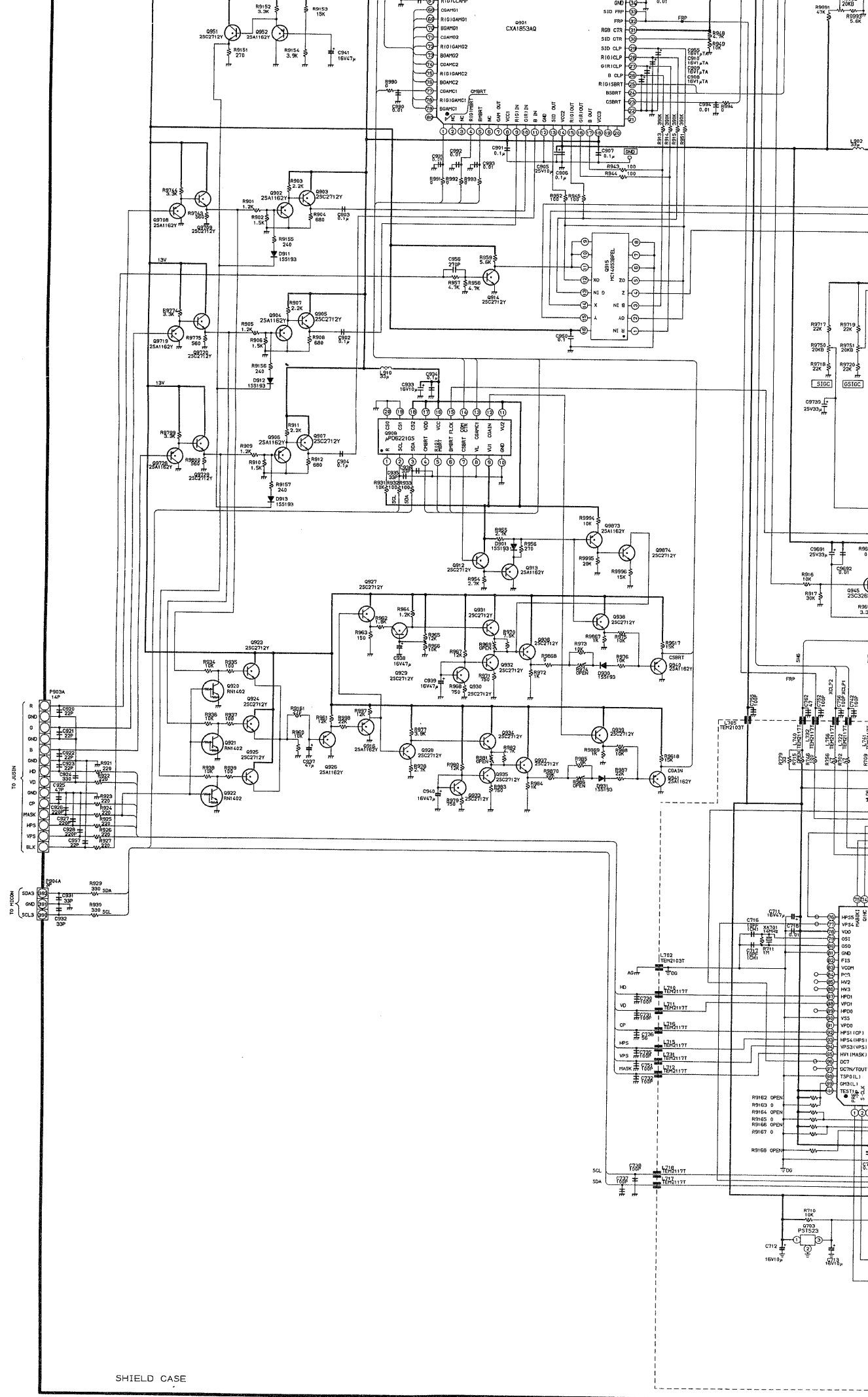
s schematic dia-



*KETSU means not necessity.



C
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SHIELD CASE

1 2 3 4 5 6

