

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 for 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. Waveform reading may vary 20%.
2. At waveform measurement using wideband oscilloscope and low capacity probe.
3. At waveform measurement using narrowband oscilloscope and 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.

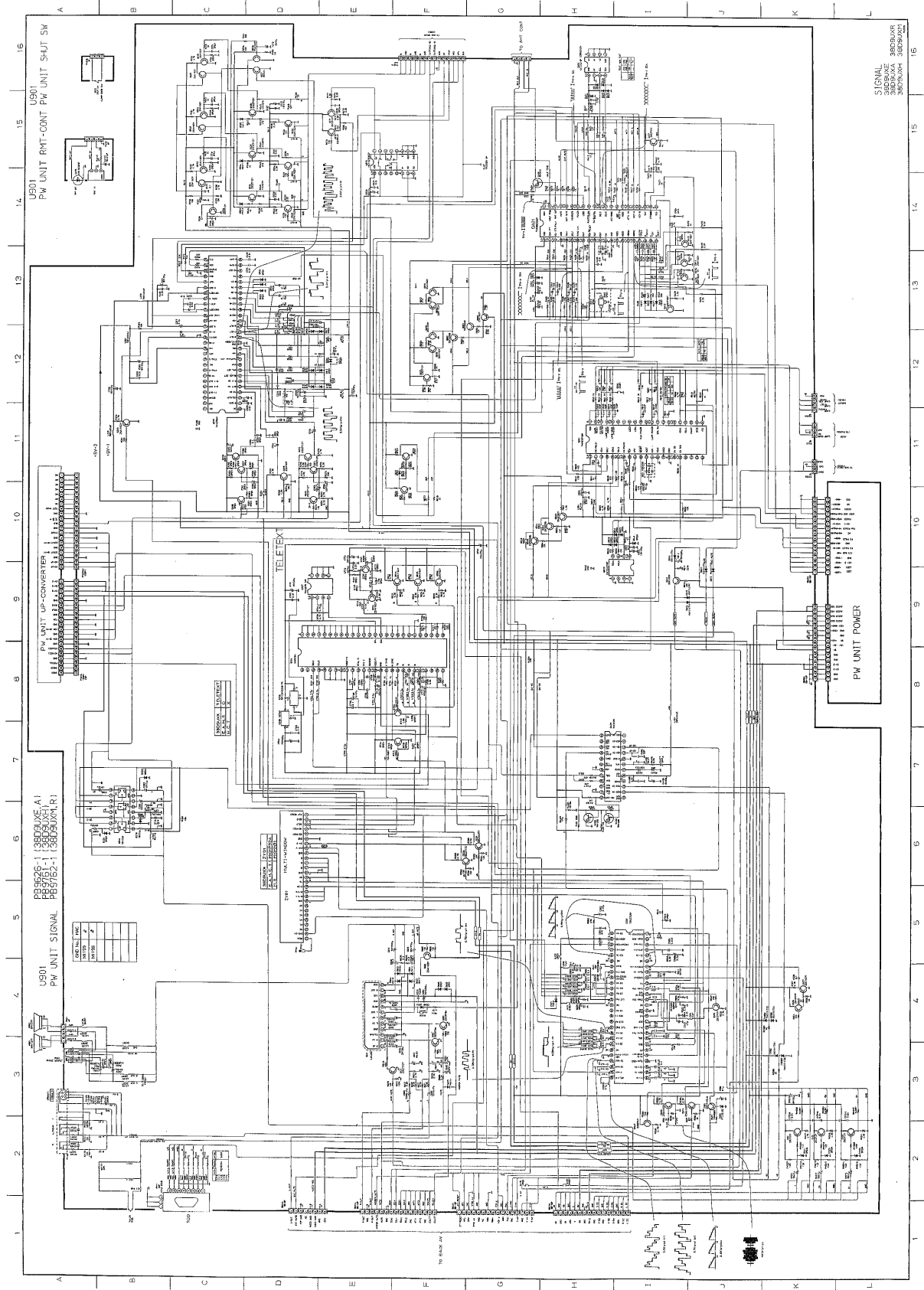
NOTES:

1. The values of a printed component shown in this schematic diagram are in ohms, unless otherwise specified.
2. The values 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 more than 1 are expressed in mH, and the values less than 1 in H.

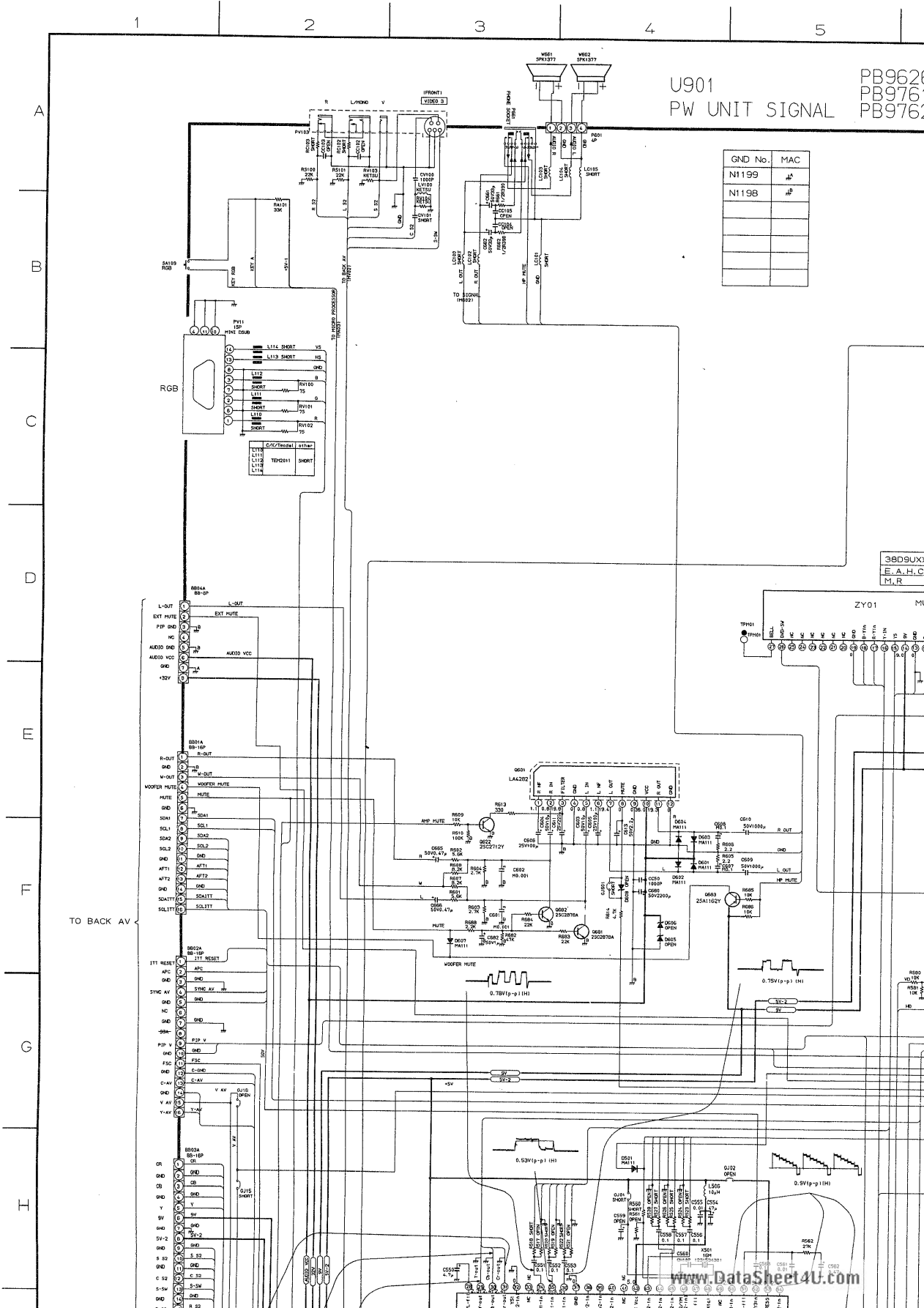
4020005



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



PB9620
PB976
PB976

38D9UX
E.A.H.C
M,R

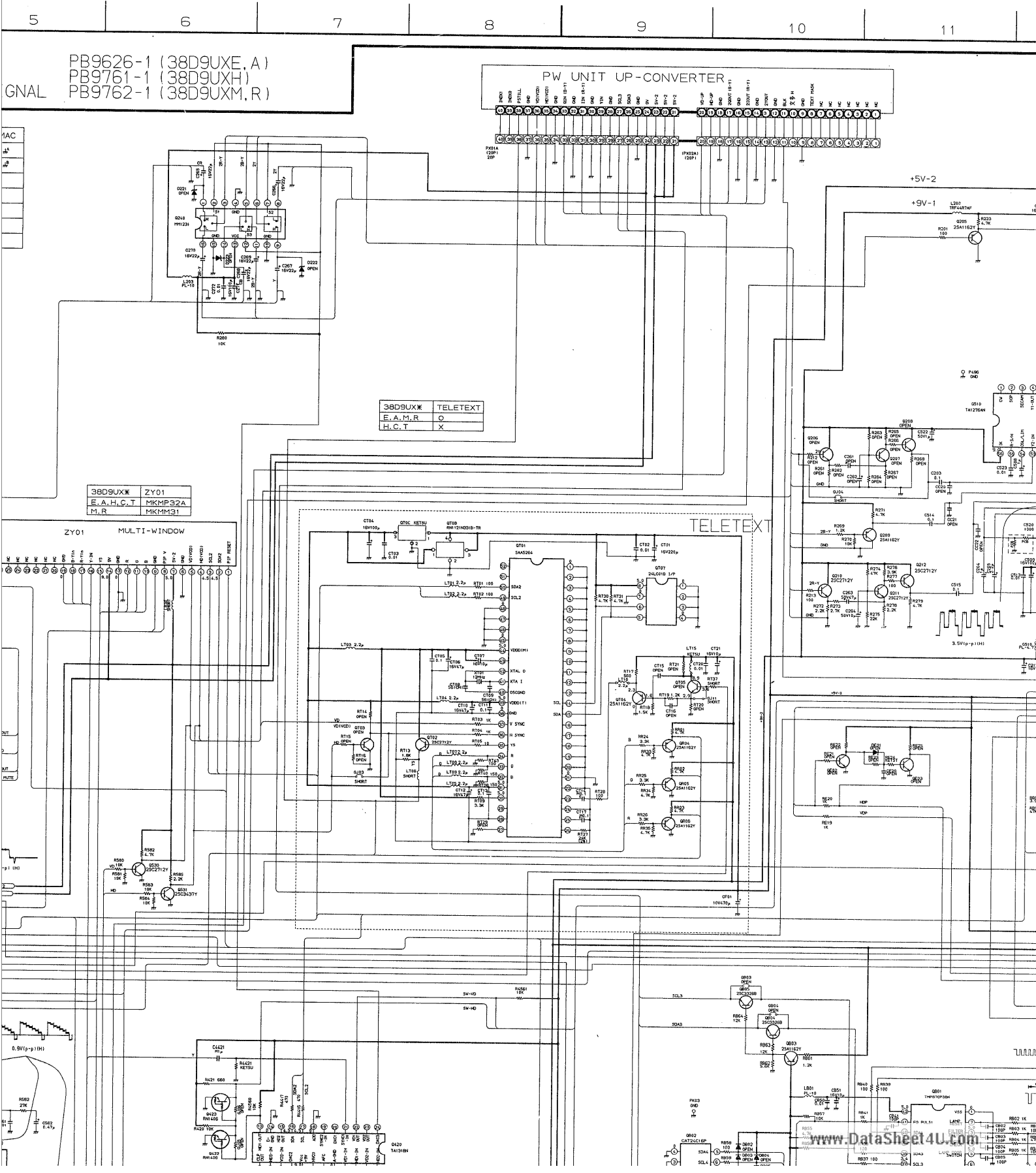
ZY01 M

TEST AND WAVEFORMS

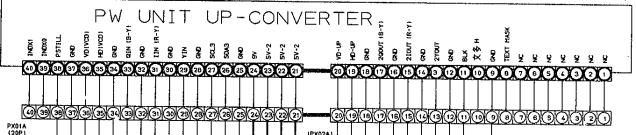
1 from point shown to chassis ground, line voltage 220
 Voltages reading may vary ±20%.
 using a wide band oscilloscope and a low capacity probe.
 ng a standard colour bar signal.
 AST and COLOUR controls are in mid position and
 lmost in maximum position. Set other controls for best

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.

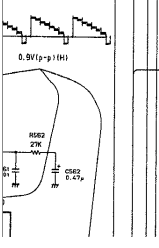
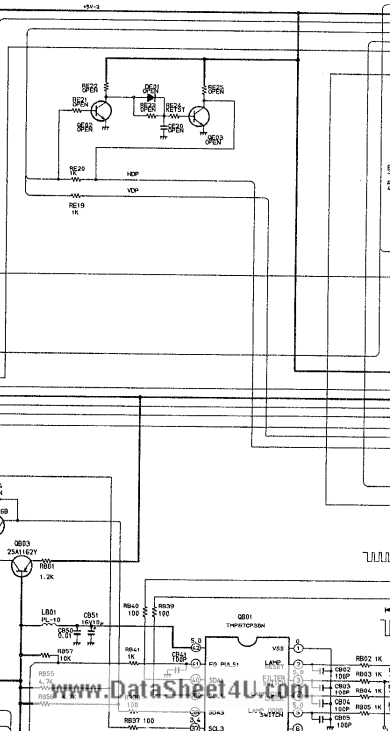
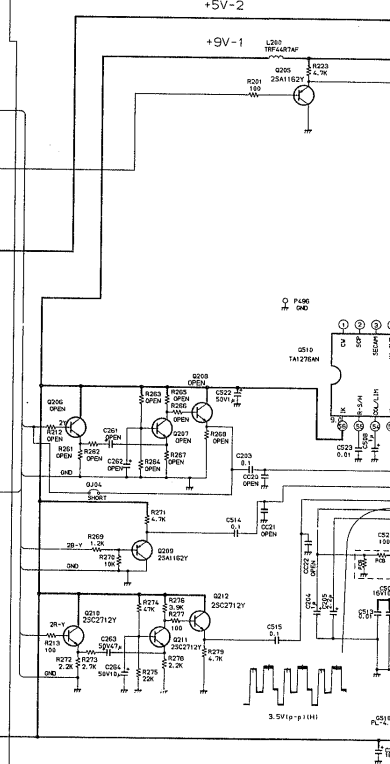
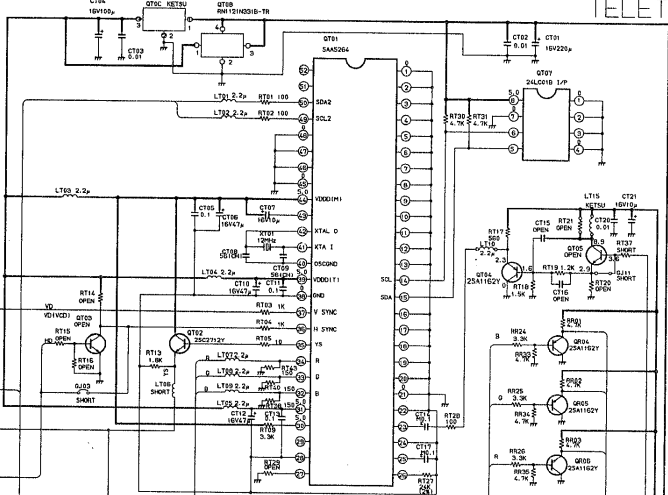


PB9626-1 (38D9UXE, A)
 PB9761-1 (38D9UXH)
 PB9762-1 (38D9UXM, R)



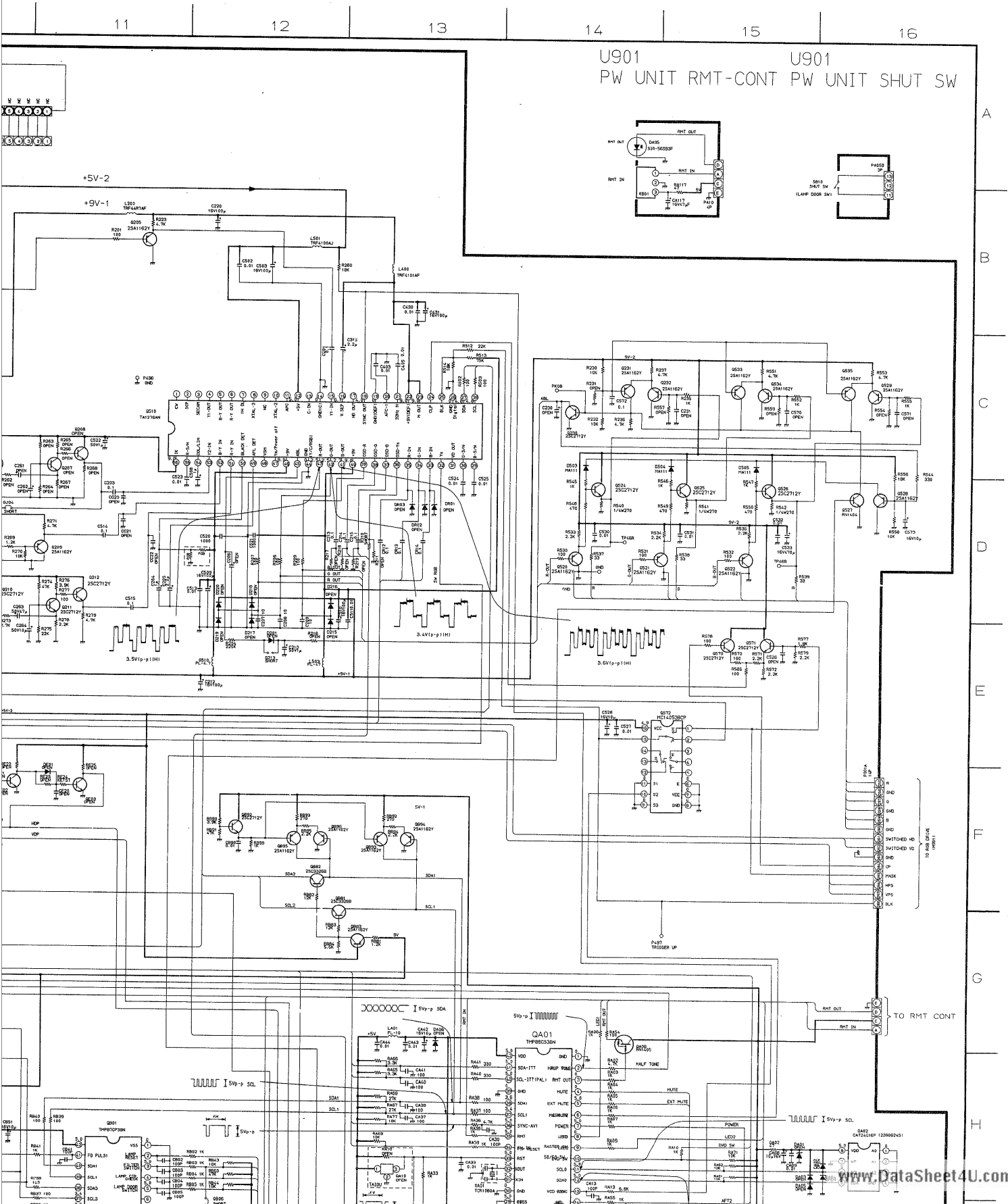
38D9UX*	TELETEXT
E, A, H, C, T	O
M, R	X

38D9UX*	ZY01
E, A, H, C, T	MKMP32A
M, R	MKMM31

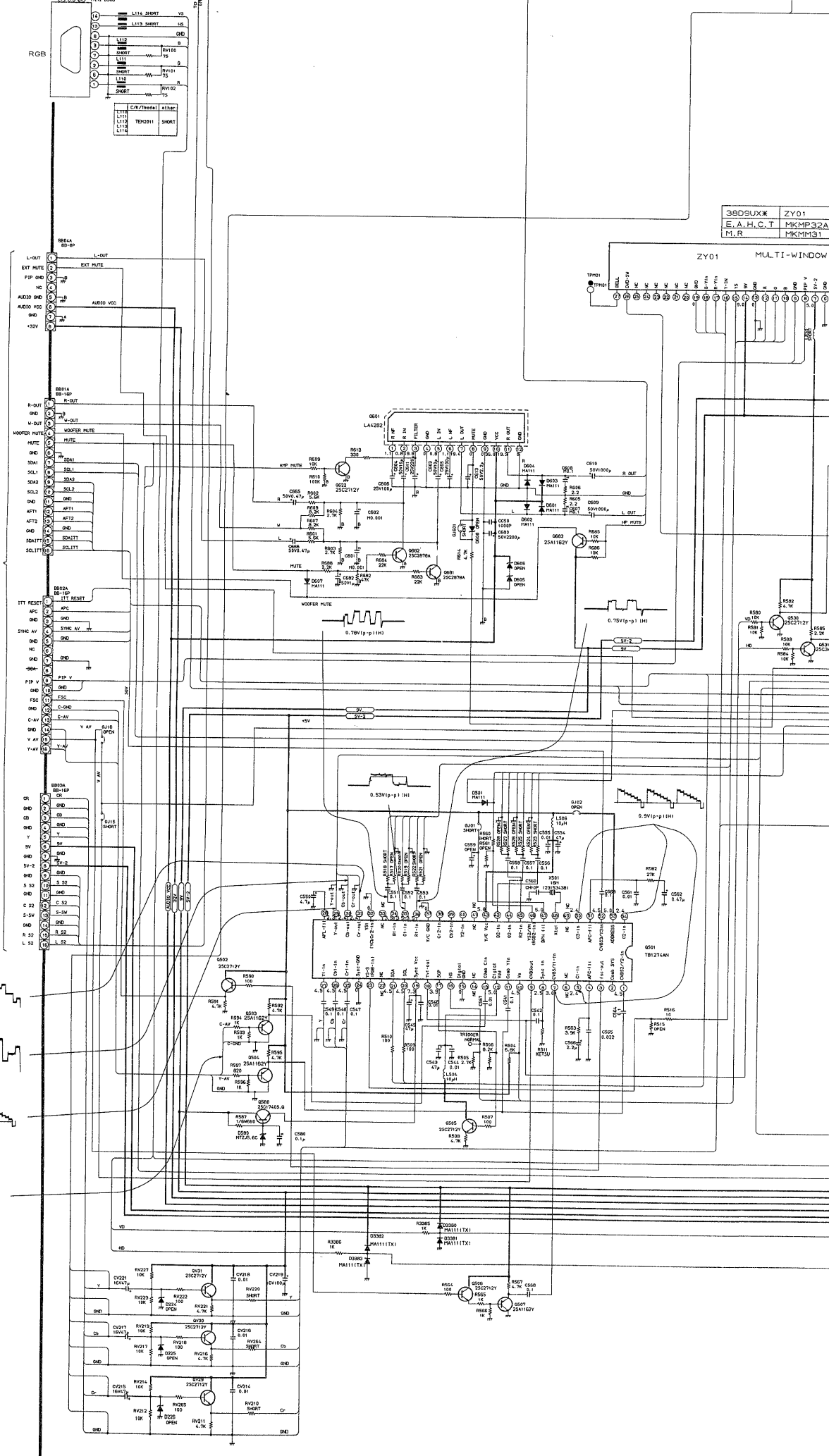


Schematic dia-

- 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 μ F and the values more than 1 in pF.
- 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.



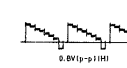
C
D
E
F
G
H
I
J
K
L



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

ZY01 MULTI-WINDOW

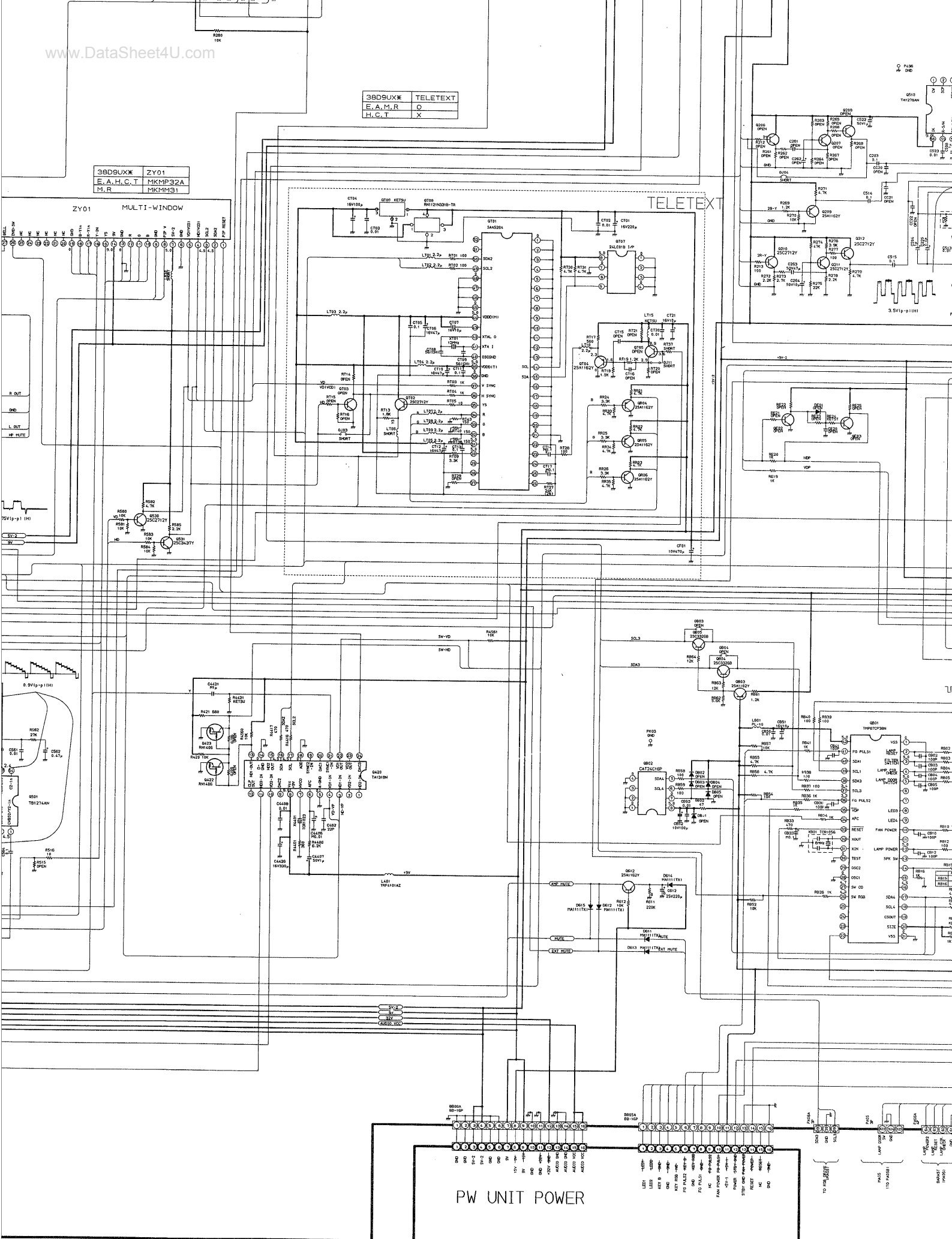
TO BACK AV



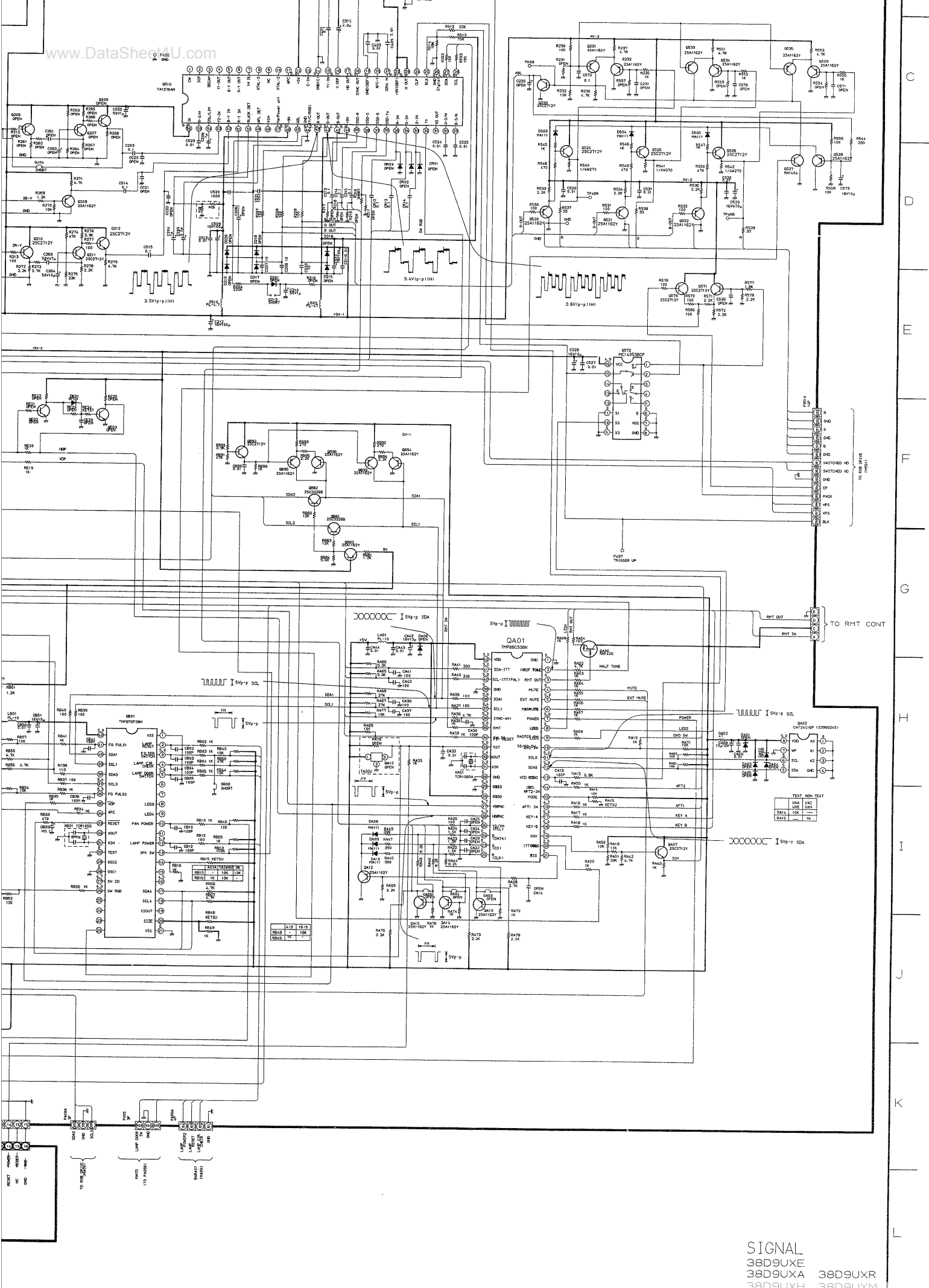
38D9UXK	TELETEXT
E.A.M.R	O
H.C.T	X

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

ZY01 MULTI-WINDOW



PW UNIT POWER



C
D
E
F
G
H
I
J
K
L

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

CAUTION: The international hazard symbol "A" in the schematic diagram and the parts list designate components which may be hazardous to life or health if they are not properly installed, used, or maintained in accordance with the instructions in the user's manual. The mounting position of components is to be identical with original. 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.

40200005

OBSERVATION OF VOLTAGES AND WAVIFORMS

1. Voltages are measured with respect to ground, line voltage 230 volts, colour bar signal. Voltage reading may vary ±5%.
2. Waveforms are measured with respect to low-capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that **CONTRAST** and **COLOUR** controls are in mid position and **POWER** control is turned to maximum position for other controls to test properly.

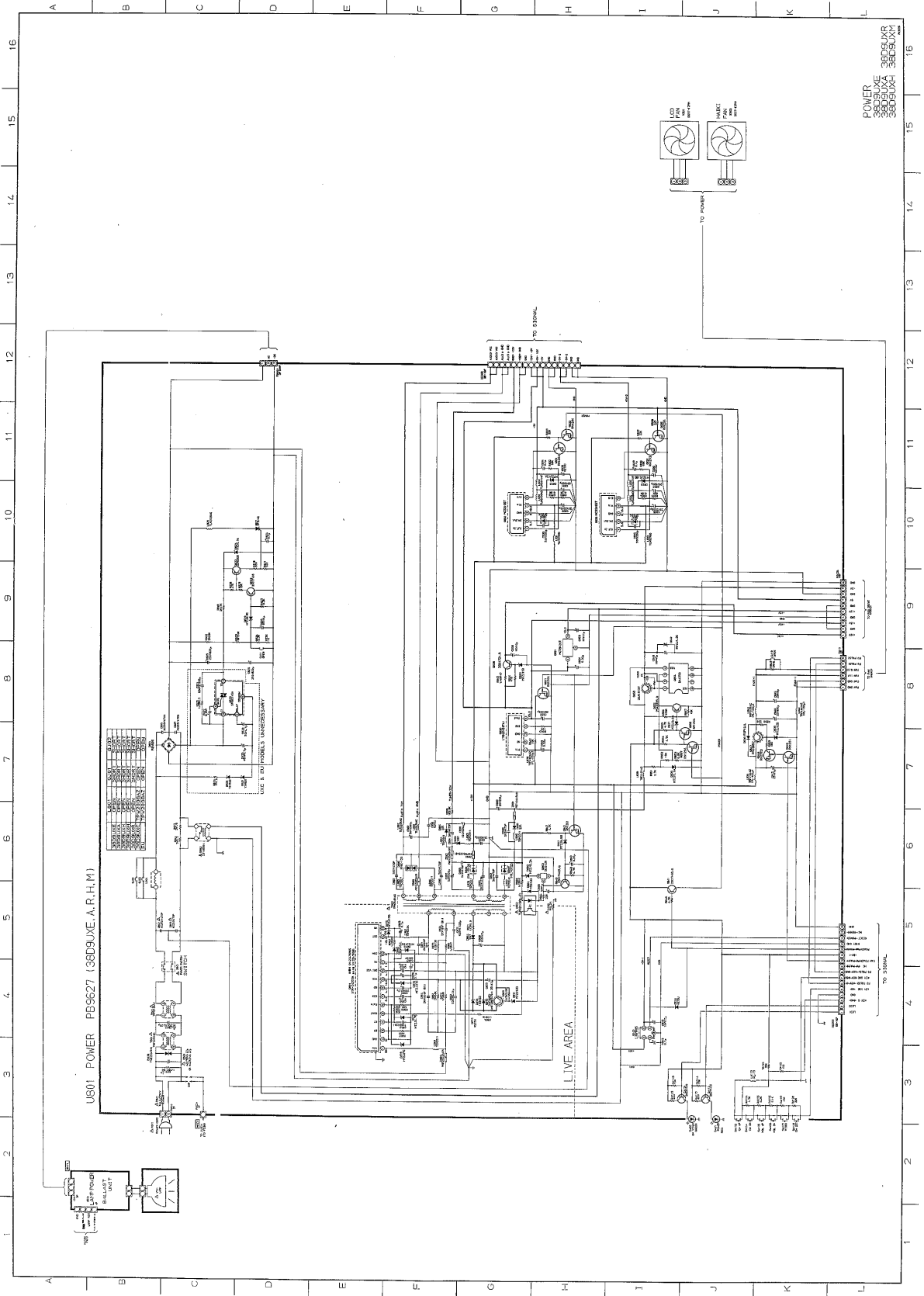
NOTES:

1. Inductance values of a specified transformer is shown in this schematic diagram. These are measured or specified from the circuit.
2. All circuits are subject to change without notice.
3. \bullet : 1 Ohm resistor.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, $\times 1000$, $\times 1000000$.
2. Inductance is shown in μH , mH , H .
3. Capacitance is shown in μF , nF , pF .
4. Inductor values more than 1 are expressed in μH , and the values less than 1 are expressed in nH , and the values less than 1 are expressed in pH .



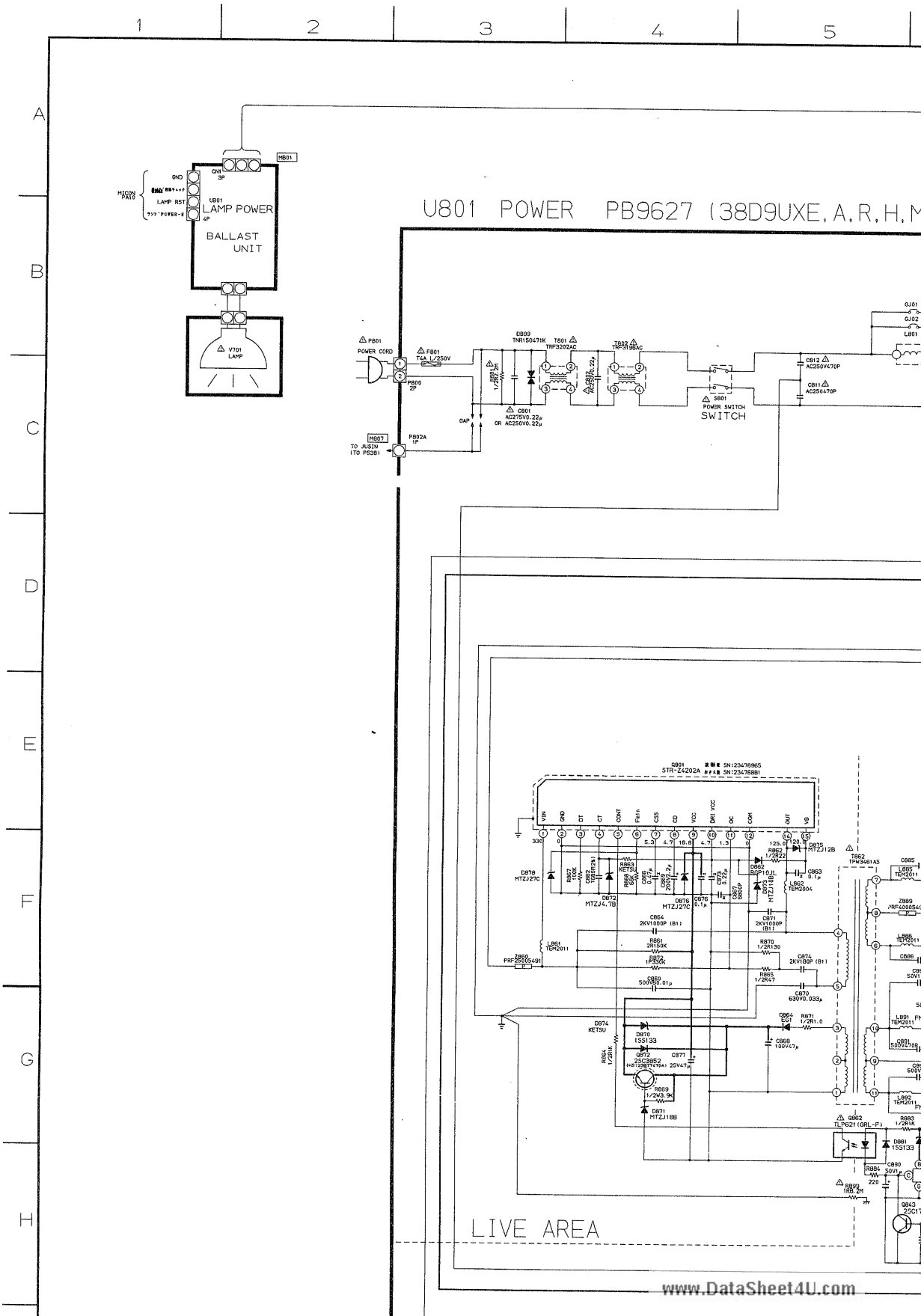
SCHEMATIC DIAGRAM MODEL : 38D9UXE / 38D9UXA (2/5)
38D9UXH / 38D9UXR
38D9UXM

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

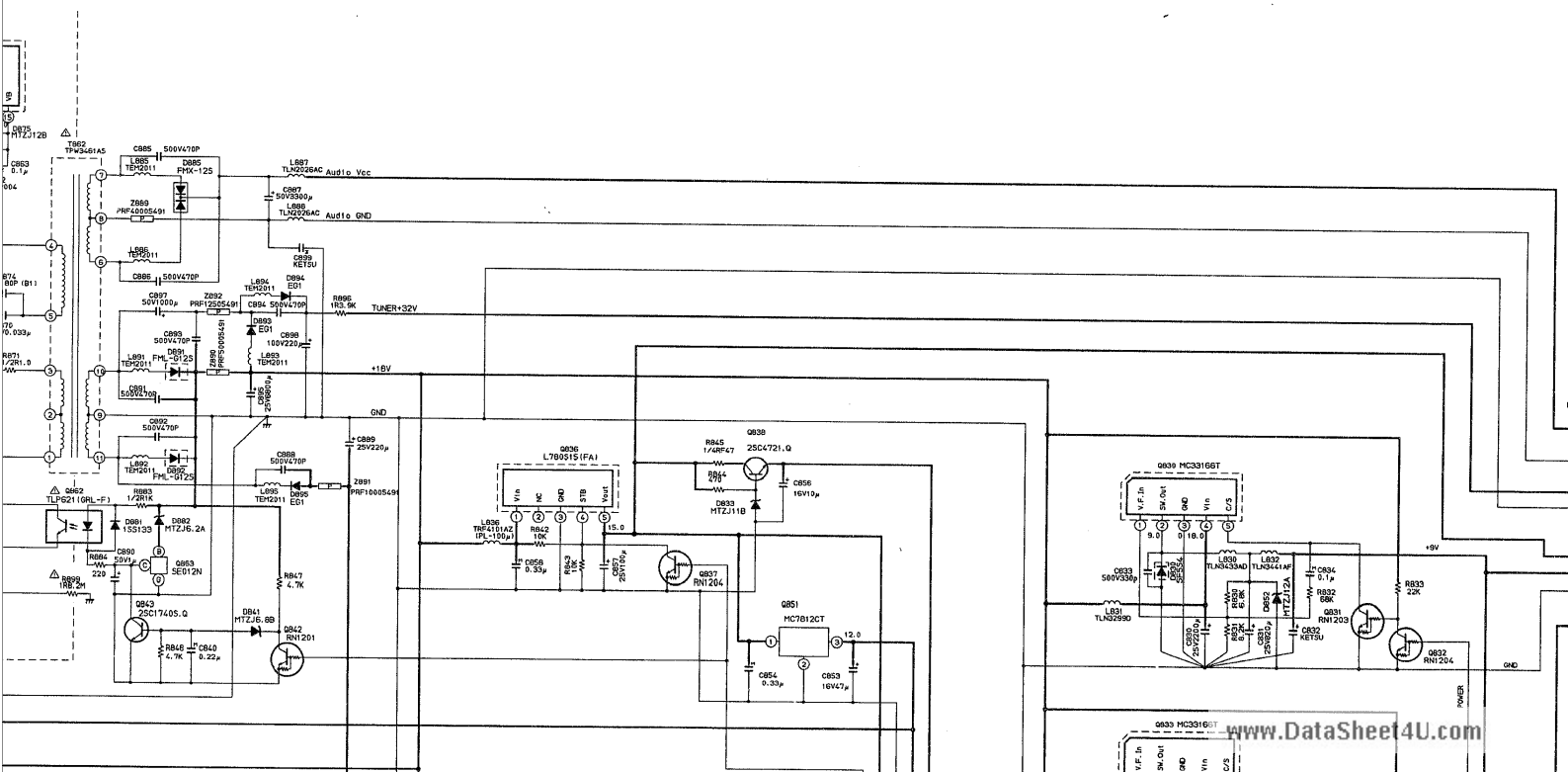
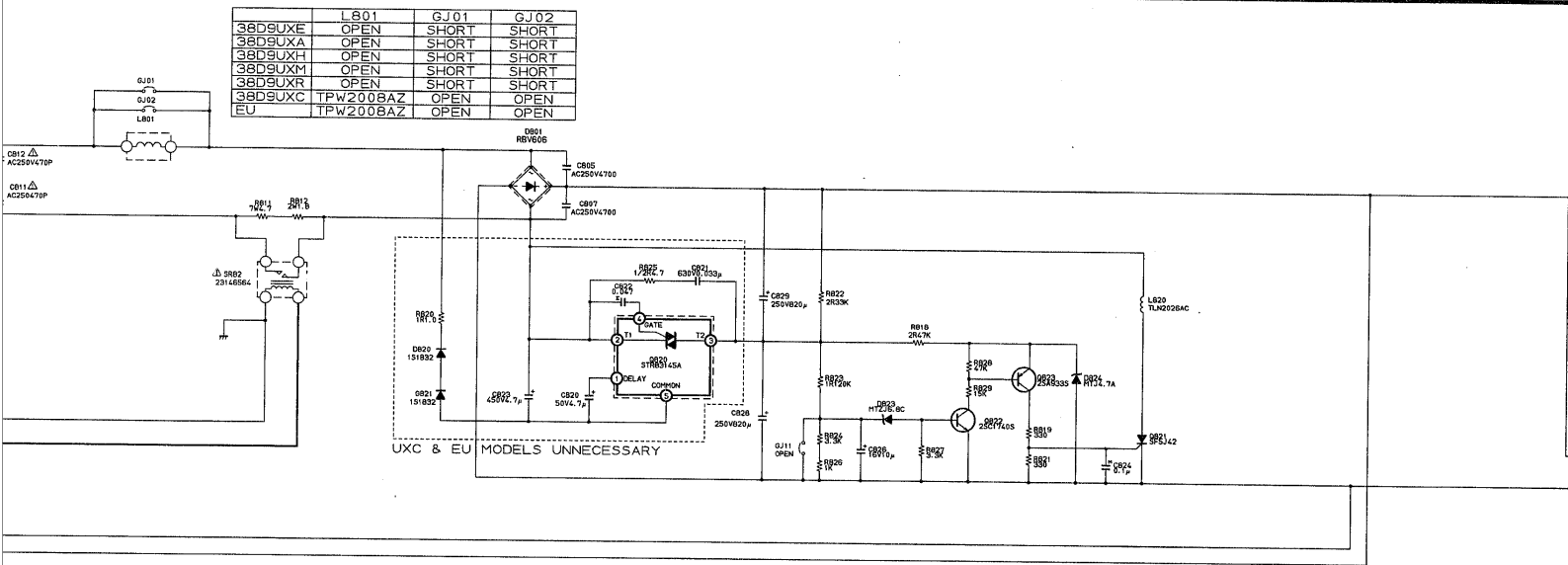
NOTES:

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.

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-

11

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15

16

A

B

C

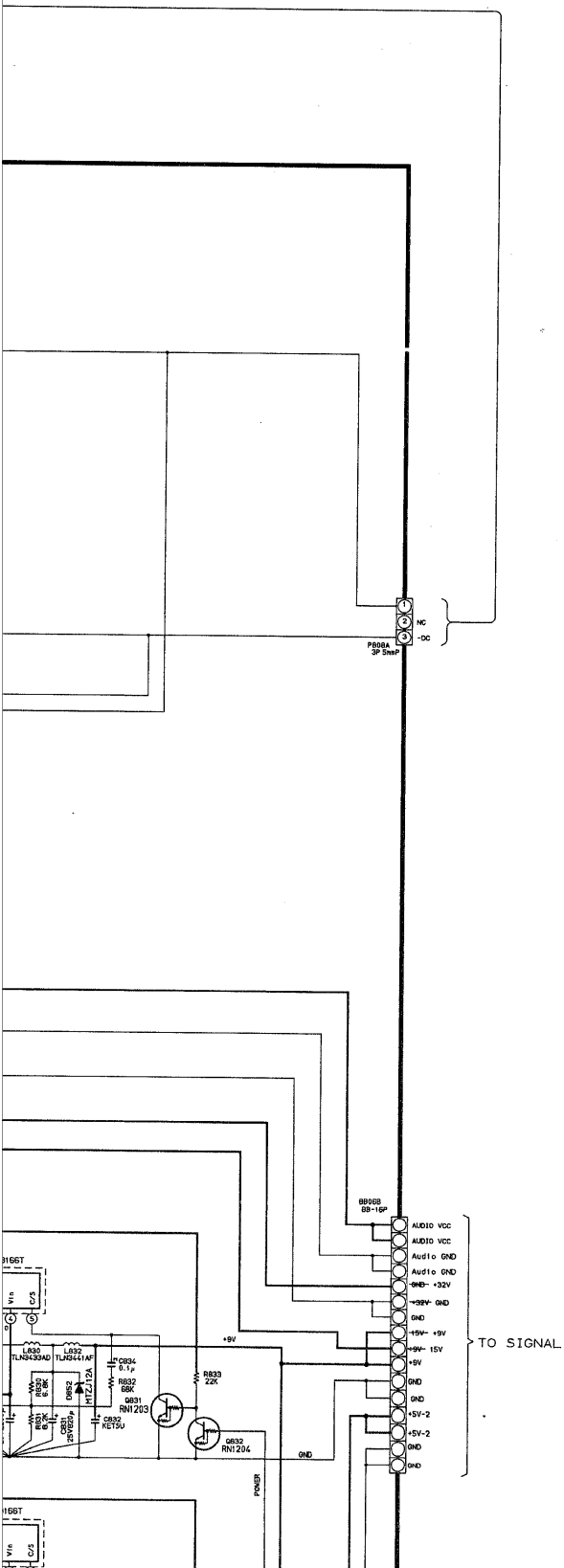
D

E

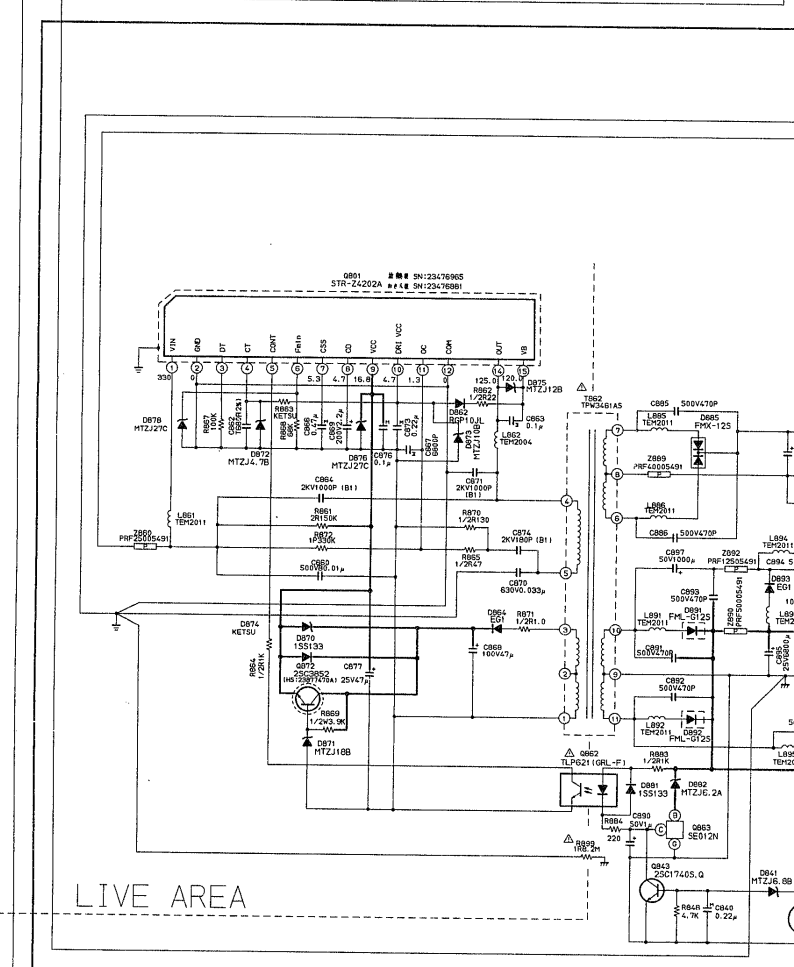
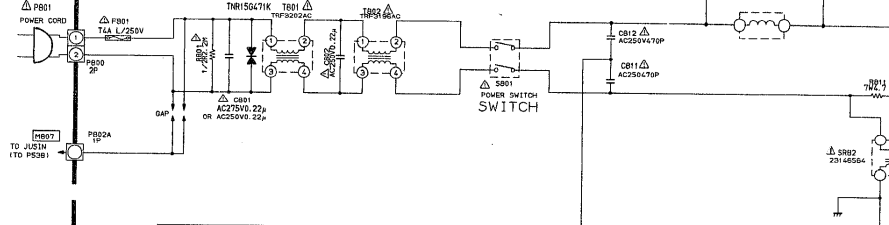
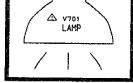
F

G

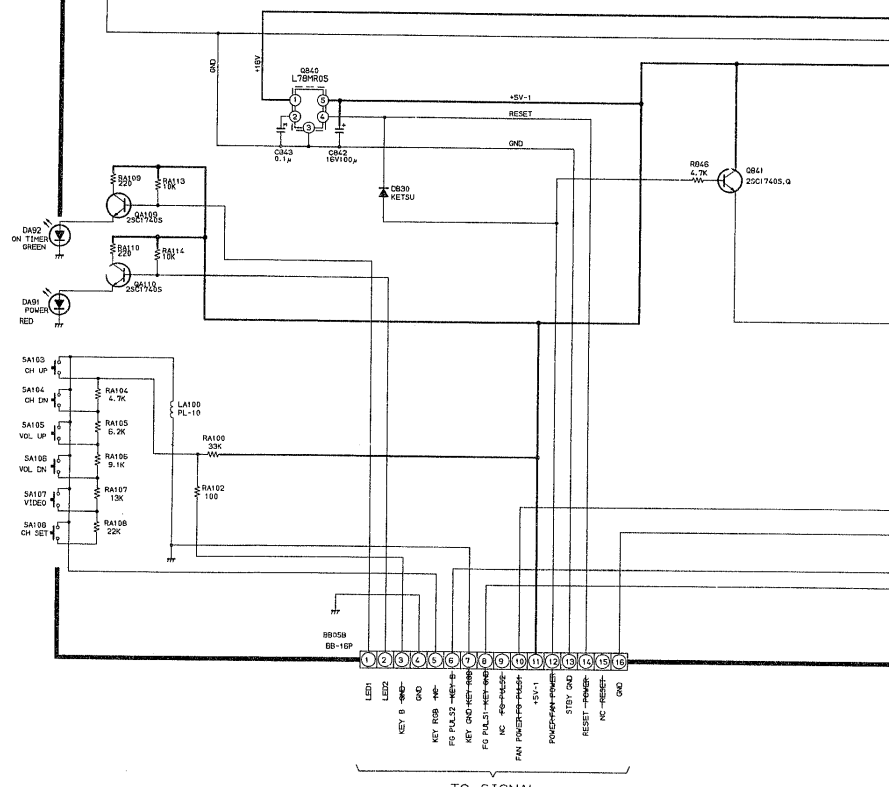
H



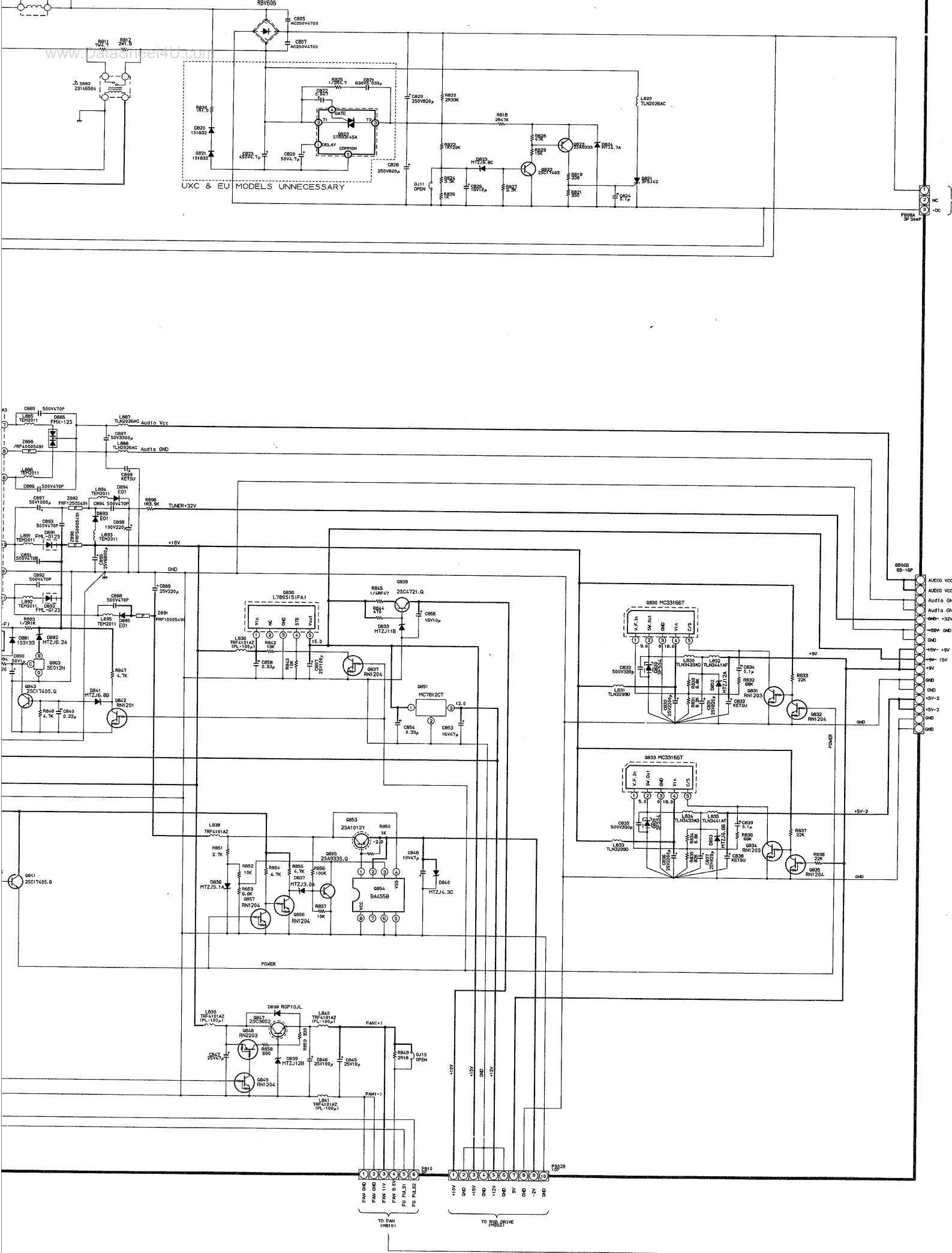
C
D
E
F
G
H
I
J
K
L



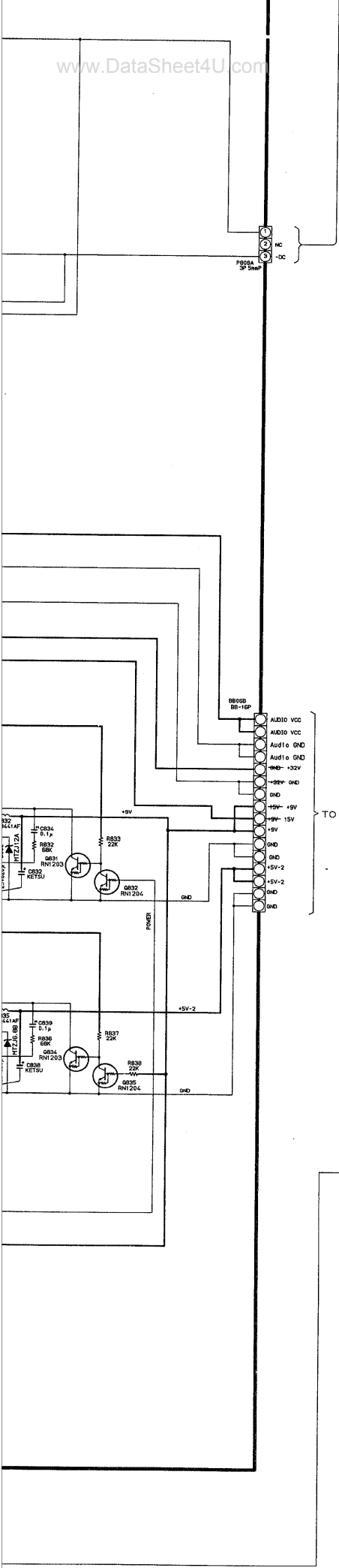
LIVE AREA



TO SIGNAL

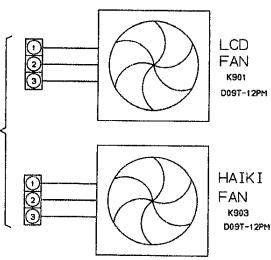


C
D
E
F
G
H
I
J
K
L



TO SIGNAL

TO POWER



POWER
 38D9UXE
 38D9UXA 38D9UXR
 38D9UXH 38D9UXM

SCHEMATIC DIAGRAM MODEL : 38D9UXE / 38D9UXA (3/5) 38D9UXH / 38D9UXR 38D9UXM

CAUTION: The international hazard symbol, "A", in the schematic diagram and the parts list designate components which are potentially dangerous to life and limb if mishandled. The replacement of components is to be identical to those in the original circuit as specified in the parts list. The mounting position of components is to be identical with original. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not depend on the safety of the receiver through improper servicing.

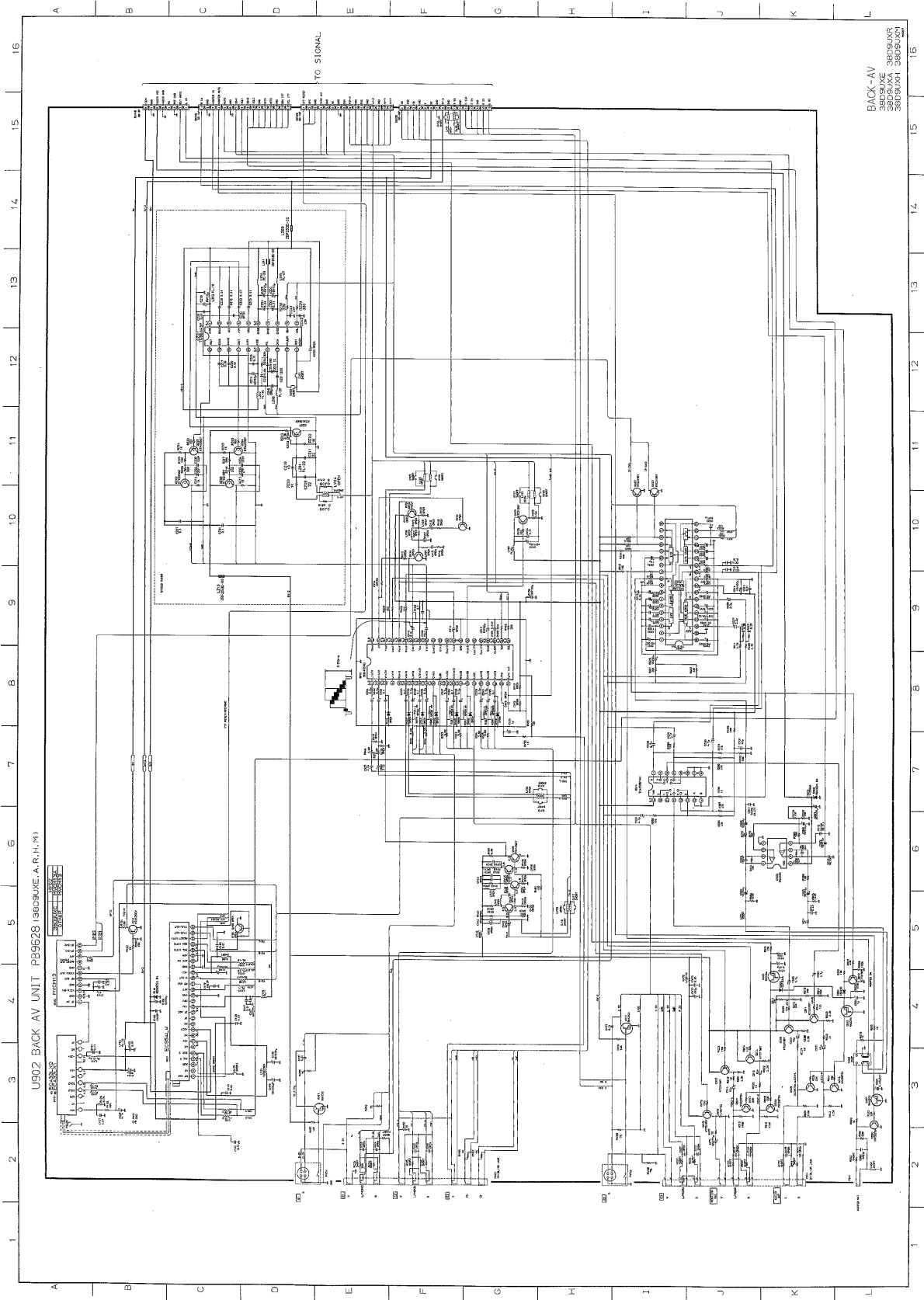
- CAUTIONS ON VOLTAGES AND WAVEFORMS**
1. Voltages read with VTVM from point above to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary 2.0%.
 2. Waveforms are taken using a standard colour bar signal.
 3. Waveforms are taken using a standard colour bar signal.
 4. BRIGHTNESS control is shown in maximum position. See other control for best picture.

- NOTES:**
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are omitted for brevity from the circuit.
 2. Unless otherwise noted in schematic, all capacitor values less than 1 μ F are expressed in pF and all inductor values more than 1 μ H are expressed in mH, and the values less than 1 nH.
 3. \odot Solder tabs.

EXPRESSION

- VALUE OF RESISTOR, CAPACITOR and INDUCTOR**
1. Values are expressed in the schematic diagram.
 2. Unless otherwise noted in schematic, all capacitor values less than 1 μ F are expressed in pF and all inductor values more than 1 μ H are expressed in mH, and the values less than 1 nH.

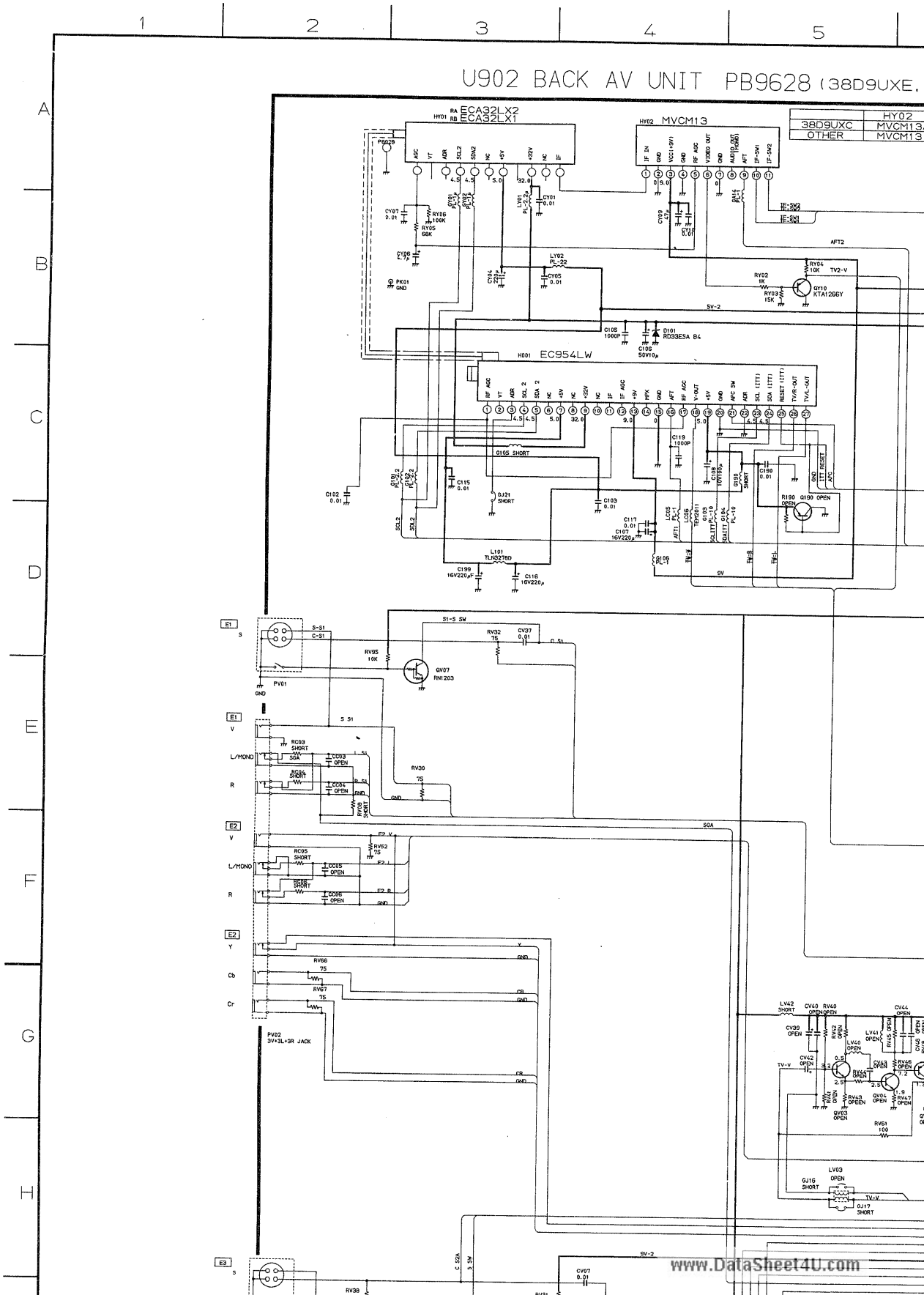
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1. Voltages read with VTVM from point shown to c volts, colour bar signal. Voltages reading may v
2. All waveforms are taken using a wide band oscillo
3. Waveforms are taken using a standard colour ba
4. Make sure that CONTRAST and COLOUR con
 BRIGHTNESS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

CAUTION: The international hazard symbols "A" 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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om point shown to chassis ground, line voltage 220
tages 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:

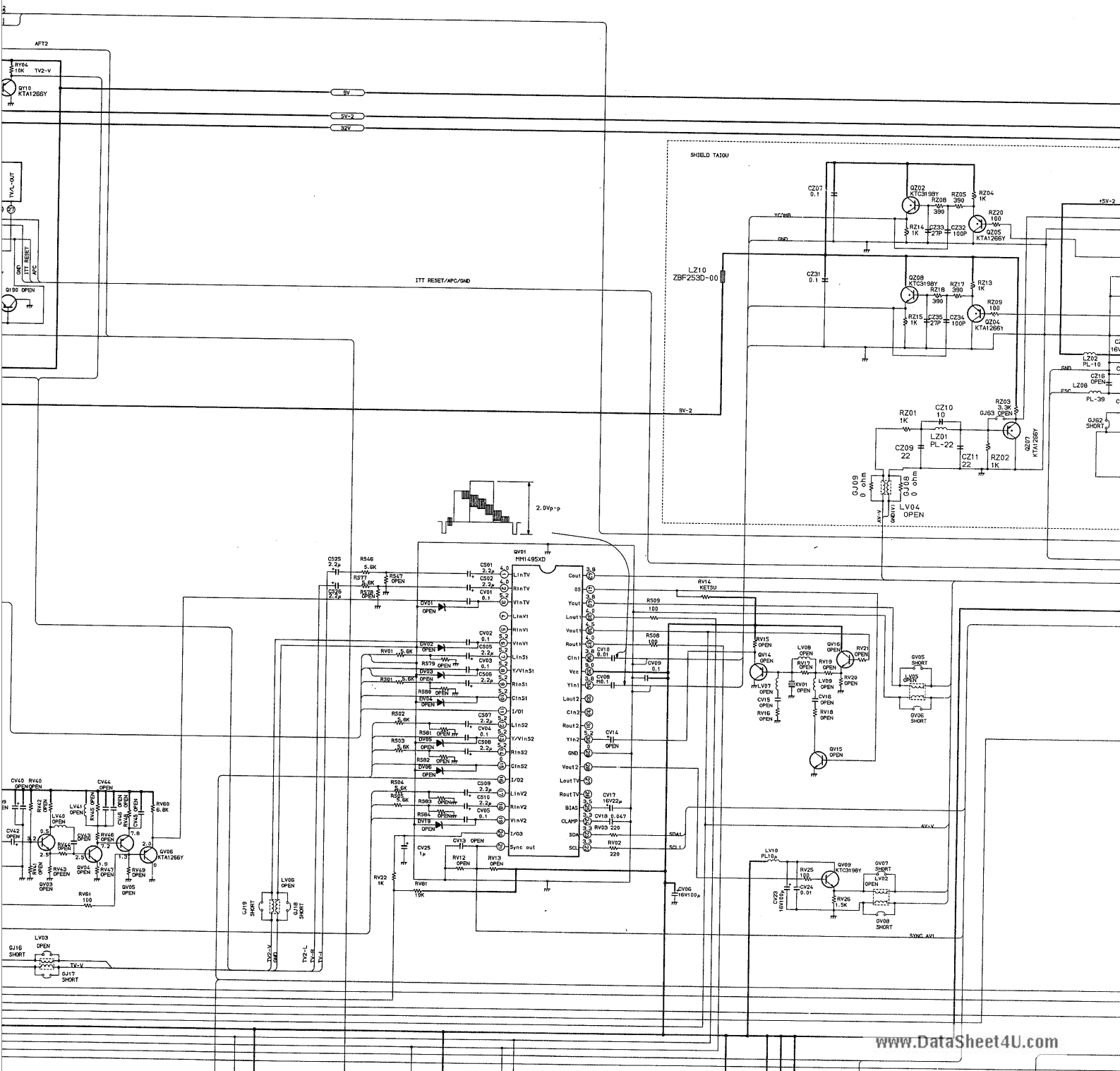
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

EXI
VAL
1. R
2. U
se
3. U
se

5 6 7 8 9 10 11

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

	HY02
38D9UXC	MVCM13A
OTHER	MVCM13



EXPRESSION

www.DataSheet4U.com VALUE OF RESISTOR, CAPACITOR and INDUCTOR

is schematic dia-

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 μ F and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.

11

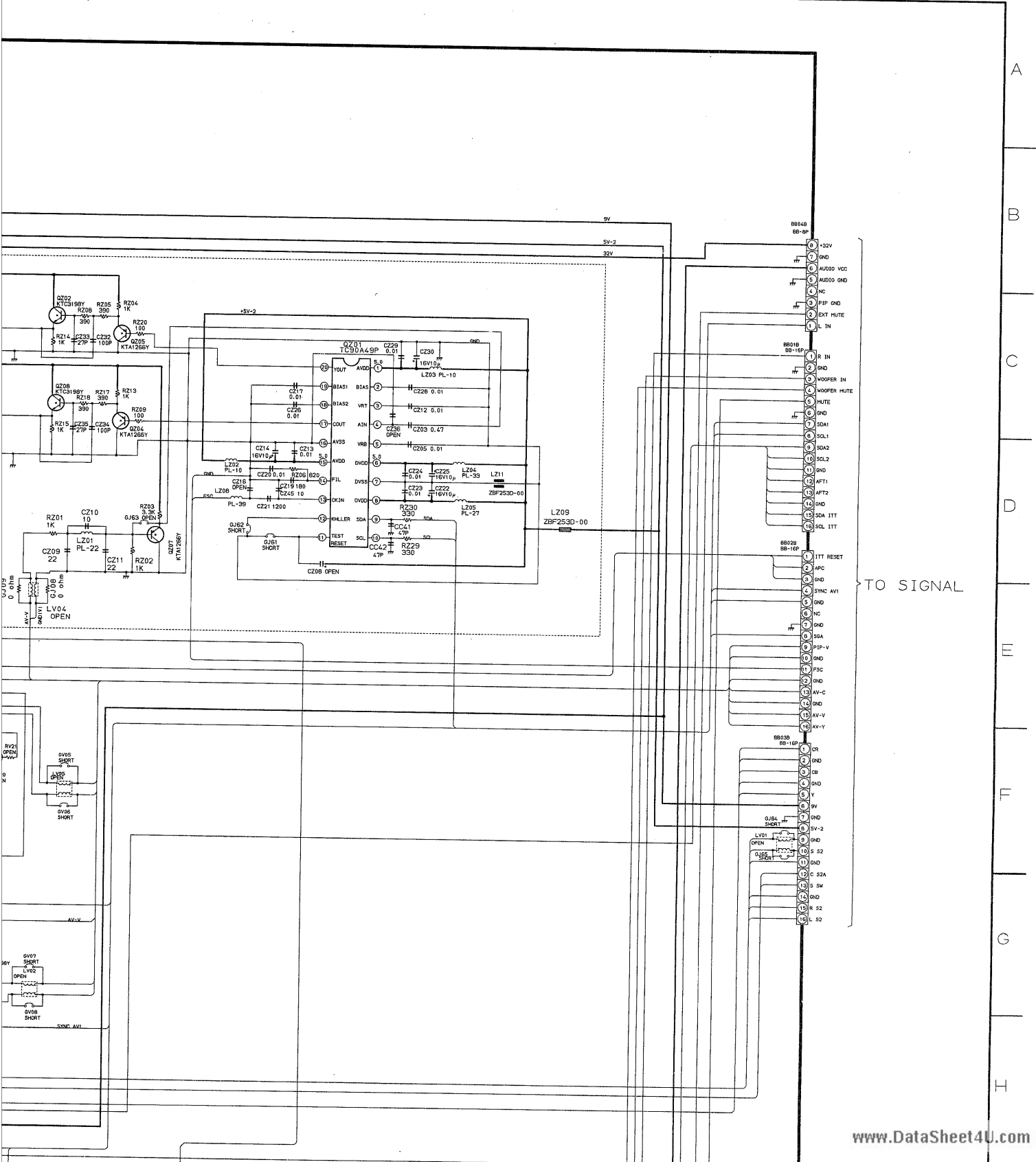
12

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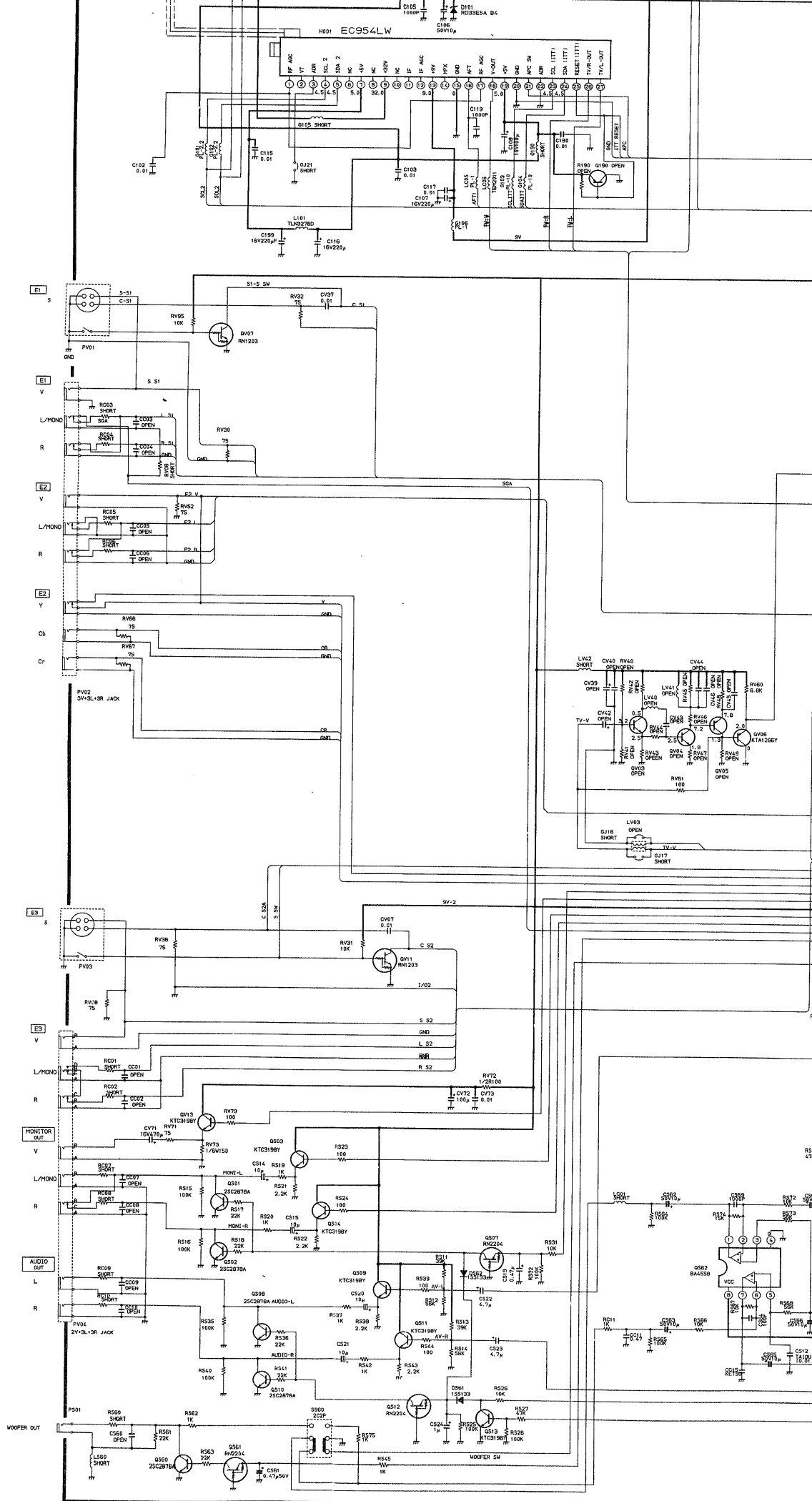
15

16



A
B
C
D
E
F
G
H

C
D
E
F
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H
I
J
K
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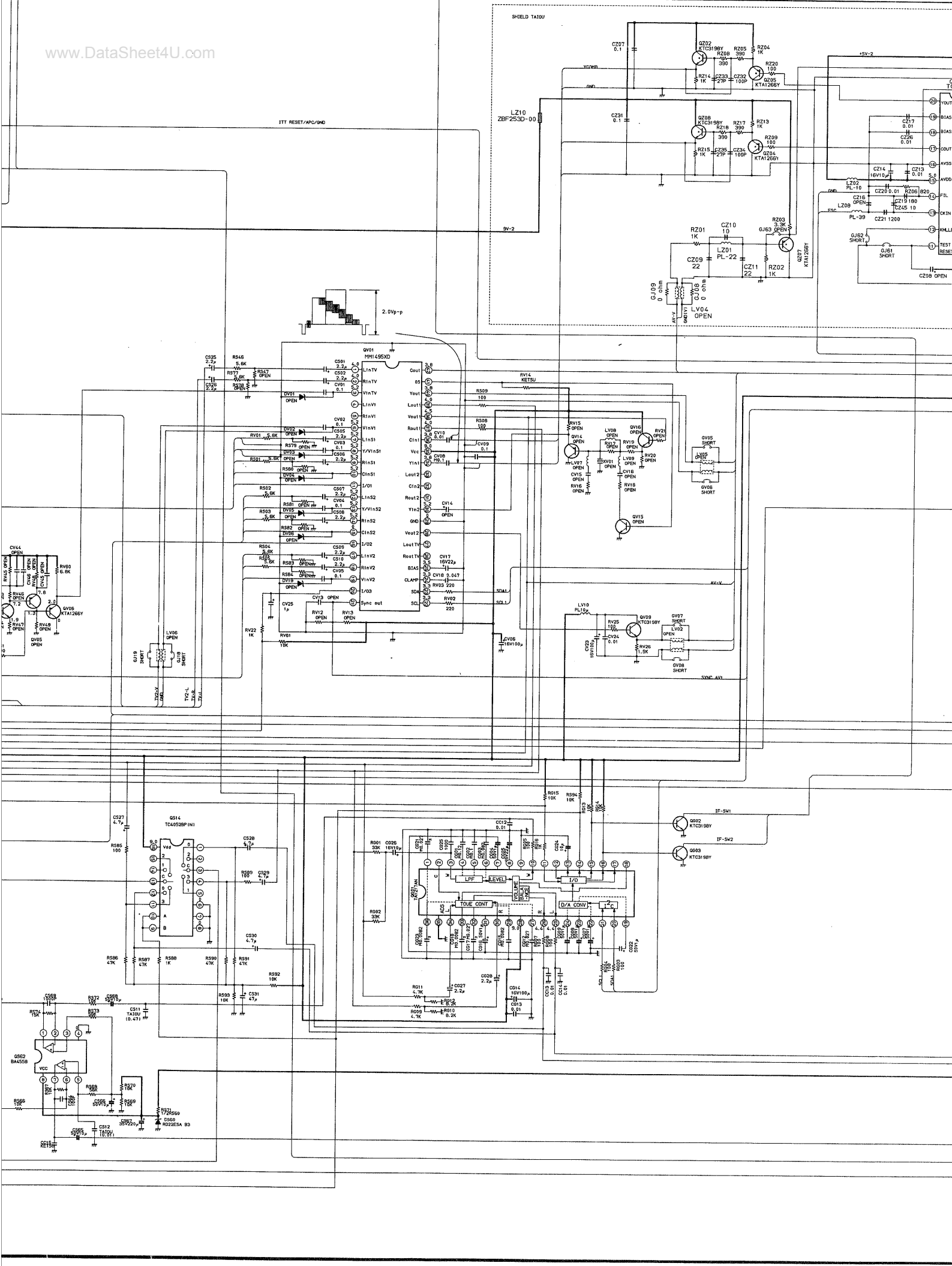


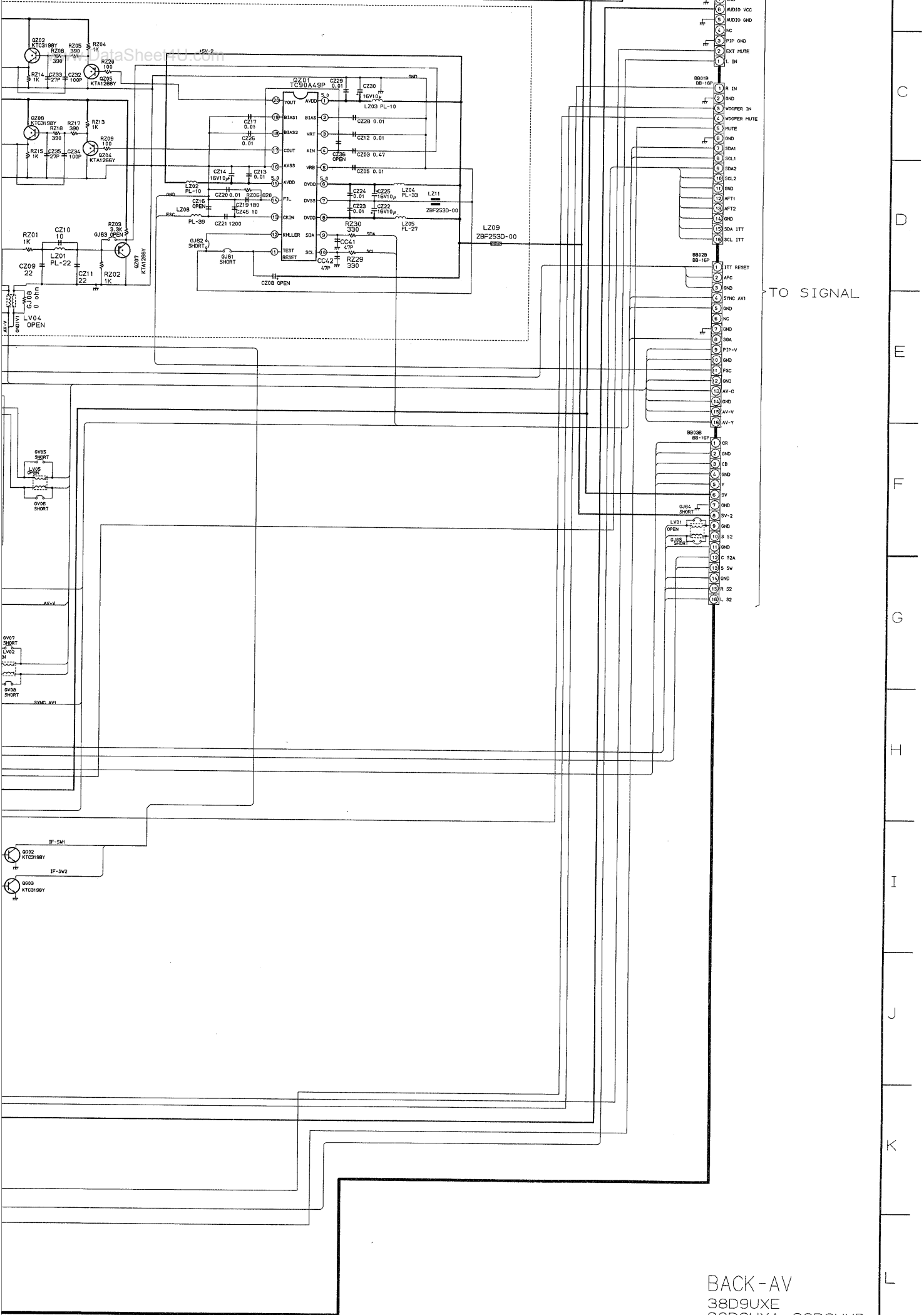
SHIELD TAI0U

1TT RESET/ARC/IND

LZ10 ZBF2530-00

9V-2





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

C
D
E
F
G
H
I
J
K
L

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 device through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 VAC.
2. All voltages are positive unless indicated otherwise.
3. Waveforms are shown using a standard color bar signal.
4. BRIGHTNESS control is adjusted to maximum position. See other controls for peak-to-peak.

NOTES:

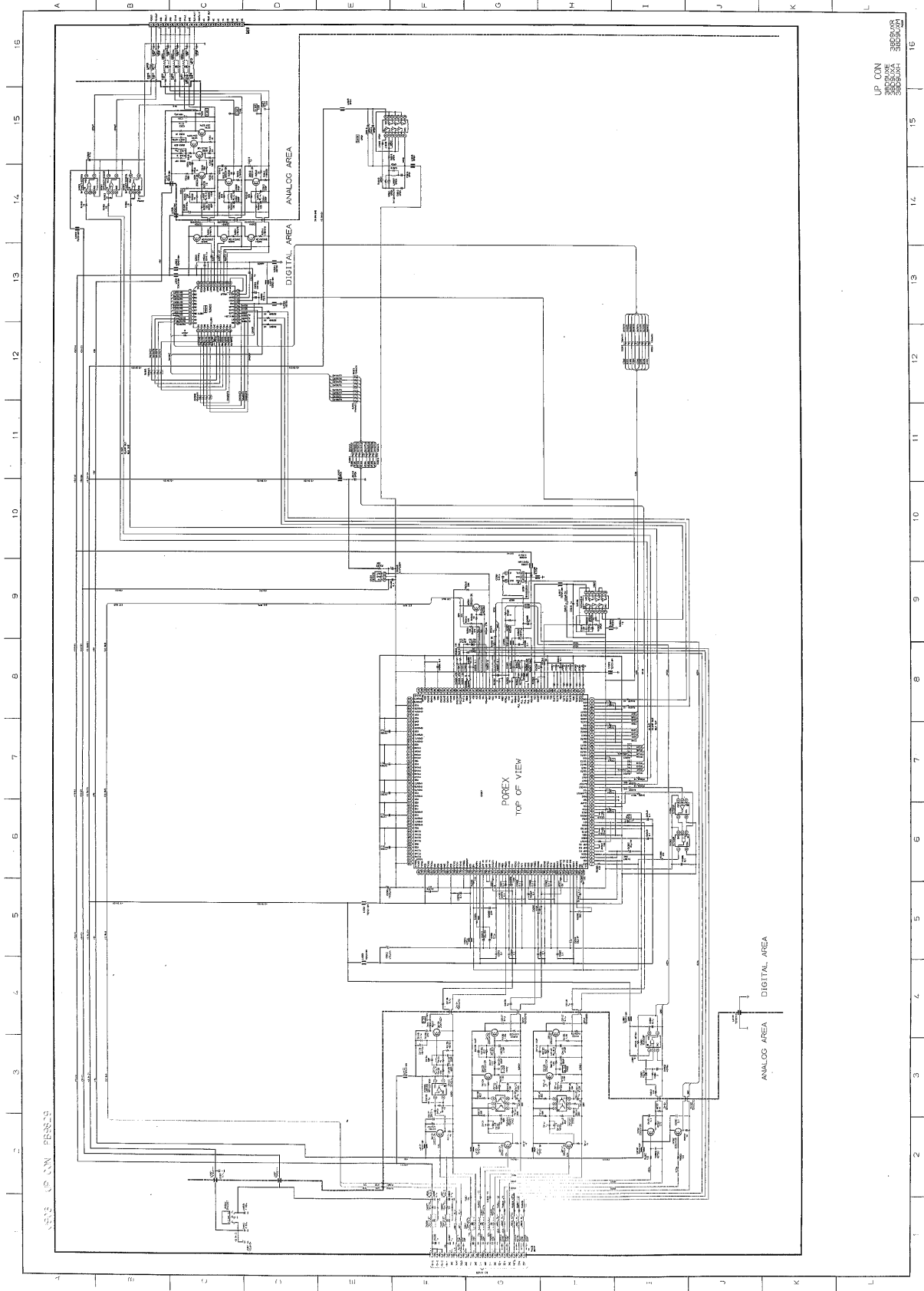
1. D.C. resistance value of a principal transformer is shown in this schematic diagram.
2. The values are subject to change without notice.
3. \bullet Solder links.

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.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.

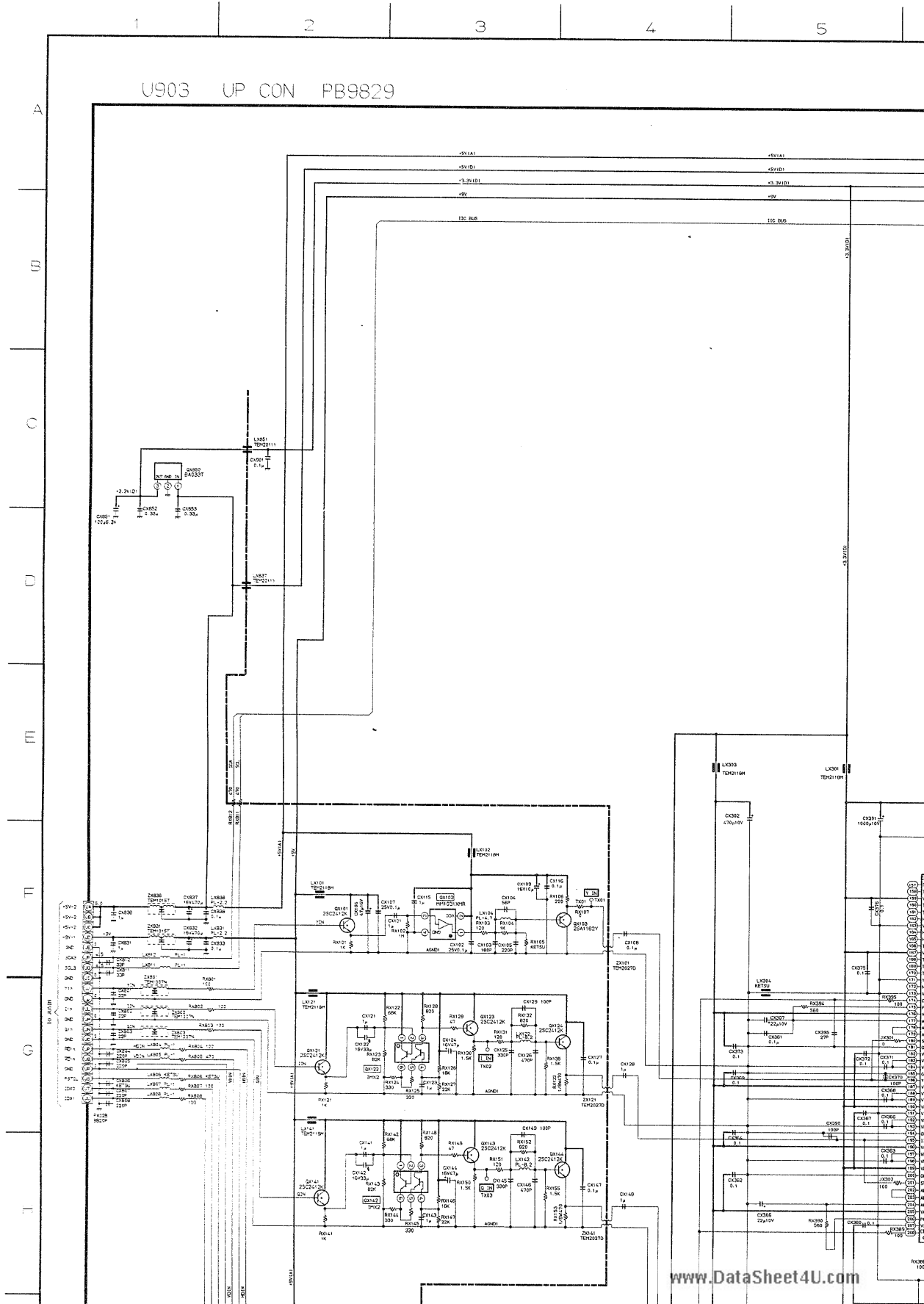
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1. Voltages read with VTVM from point shown to volts, colour bar signal. Voltages reading may
2. All waveforms are taken using a wide band oscil
3. Waveforms are taken using a standard colour b
4. Make sure that CONTRAST and COLOUR co
BRIGHTNESS control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

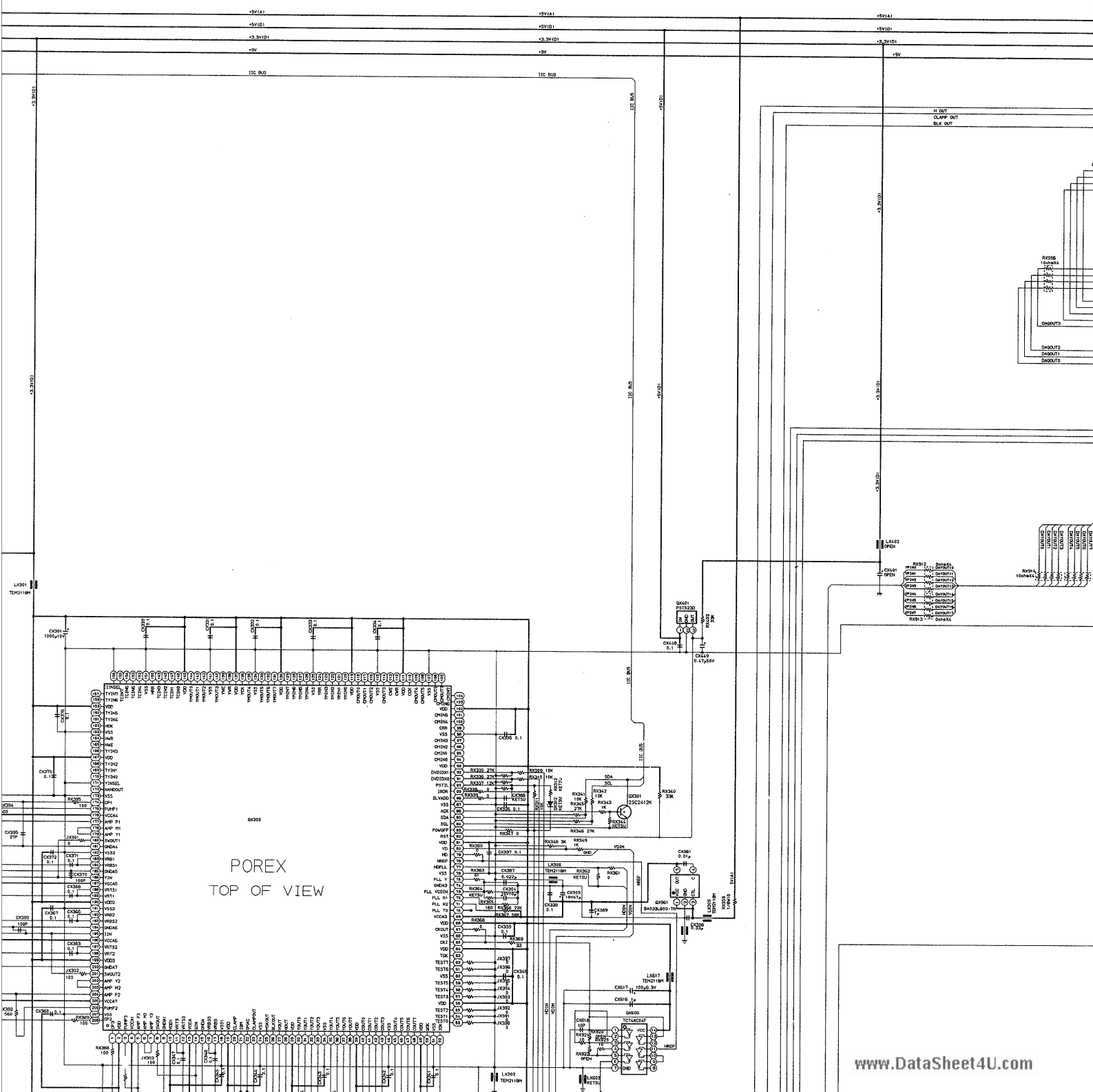
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

EXP

VALU

1. Res
2. Unl
3. Unl

5 6 7 8 9 10 11

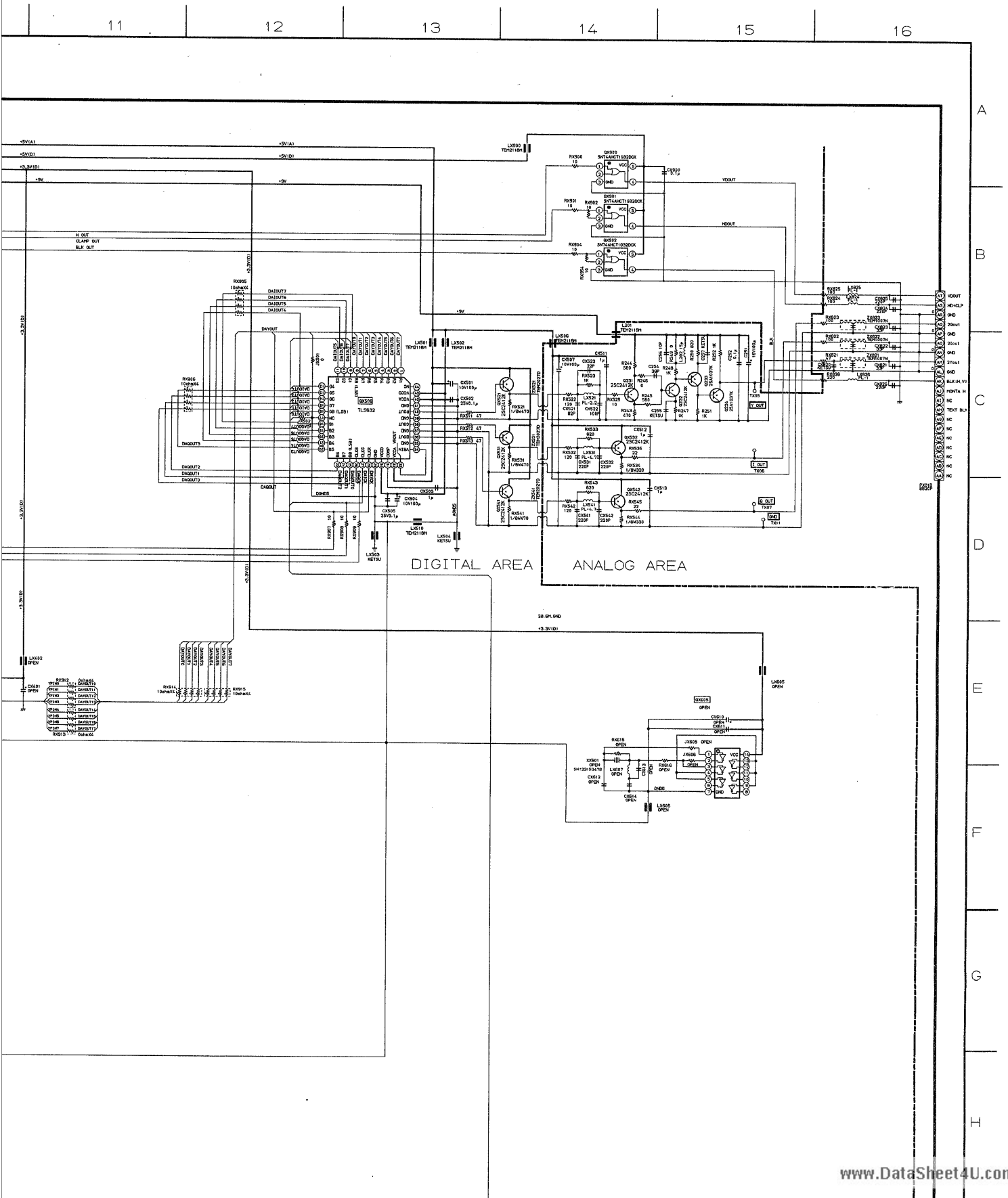


EXPRESSION

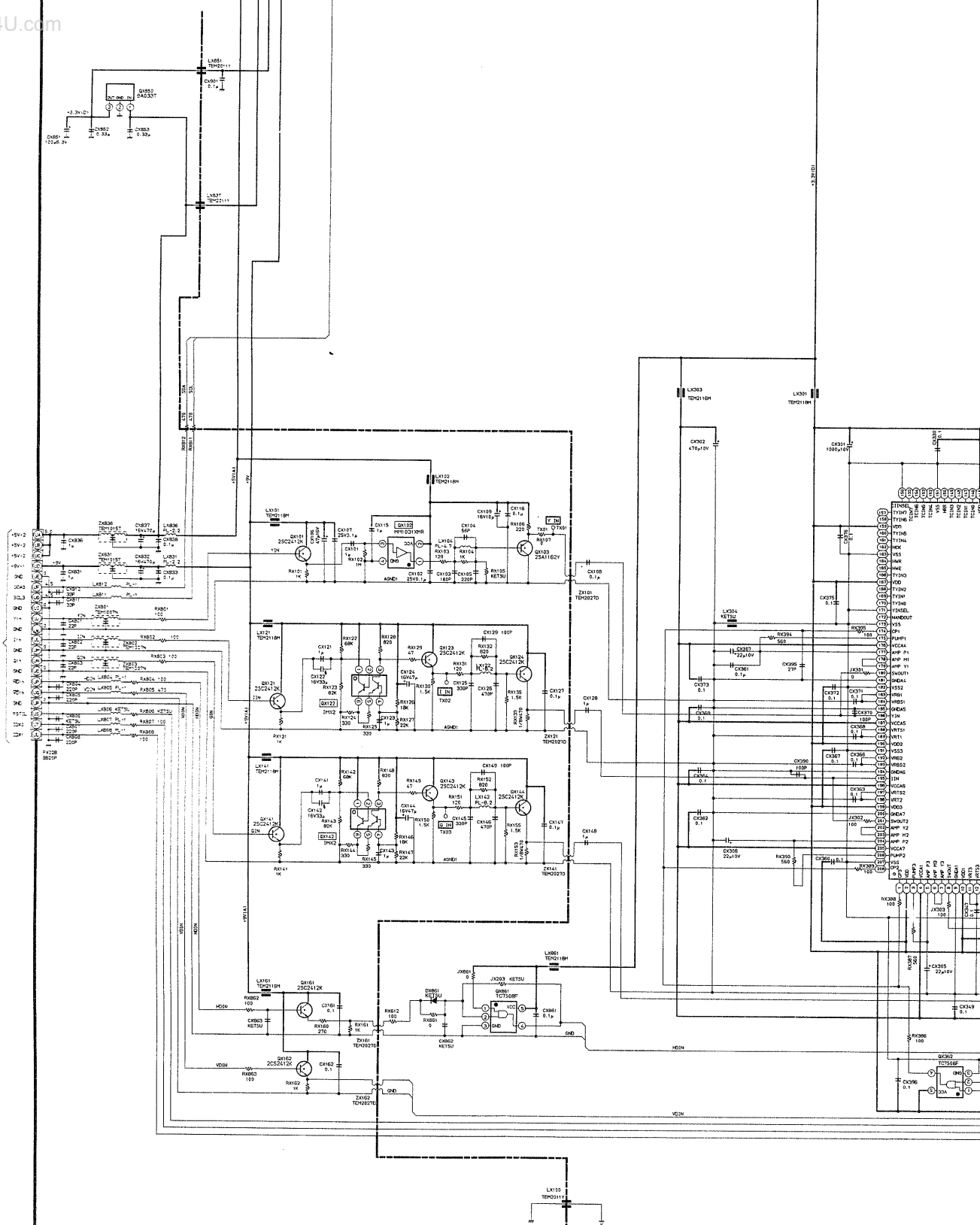
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

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-

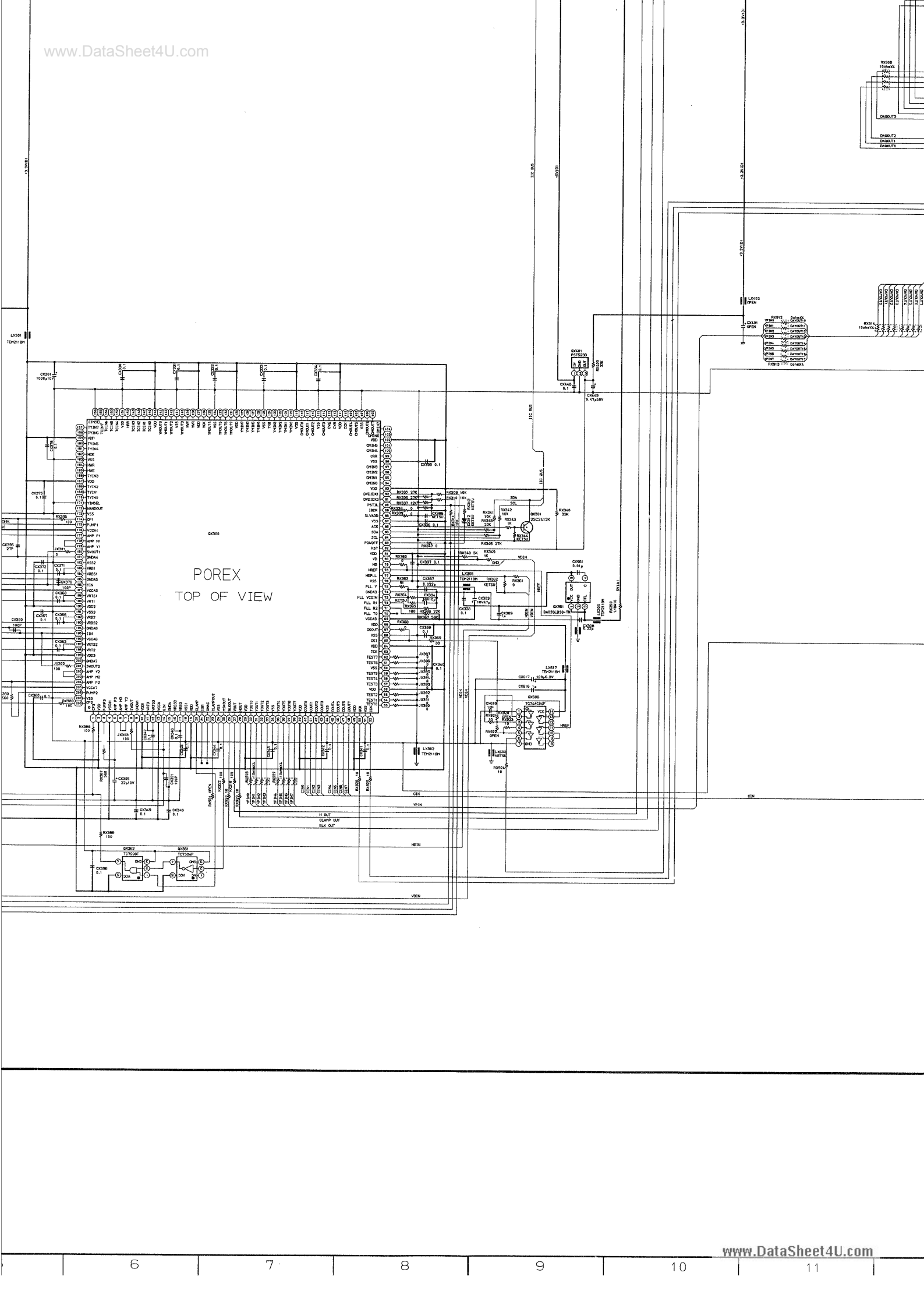


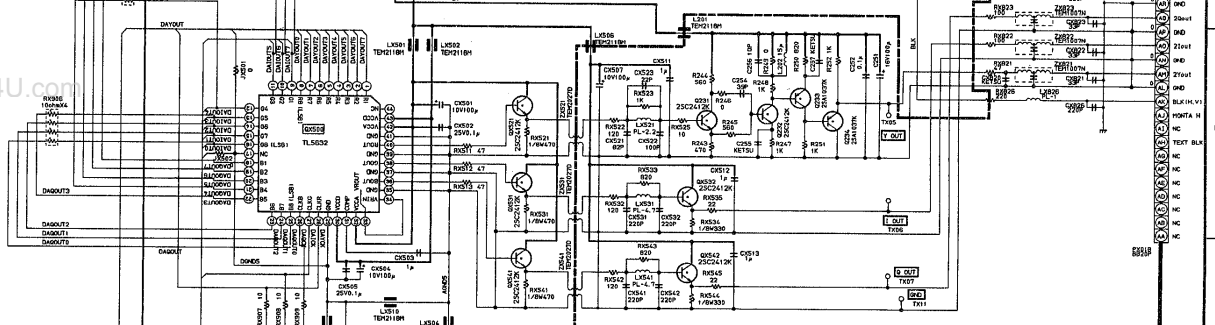
C
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I
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K
L



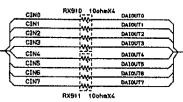
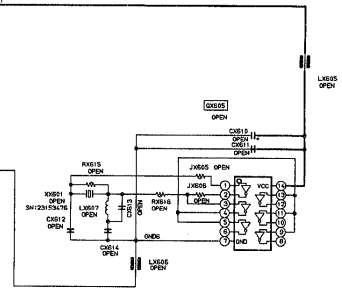
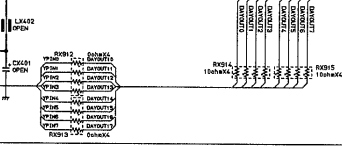
ANALOG AREA

DIGITAL AREA





DIGITAL AREA ANALOG AREA



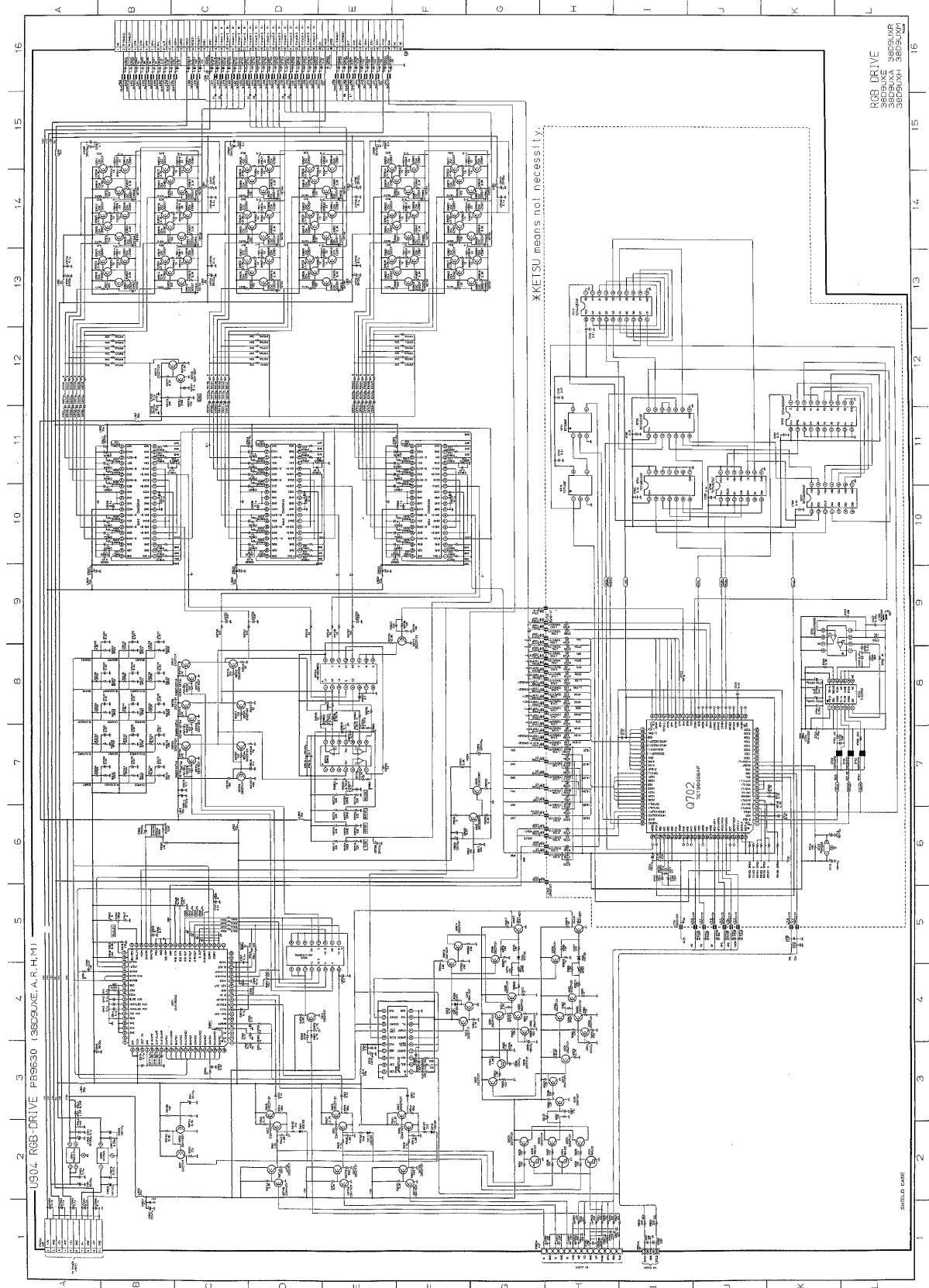
SCHEMATIC DIAGRAM
MODEL : 38D9UXE / 38D9UXA
38D9UXH / 38D9UXR

40200005

- EXPLANATION 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 SHOULD BE TAKEN FROM MULTIMETER POSITION. See other controls for best picture.

- 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.

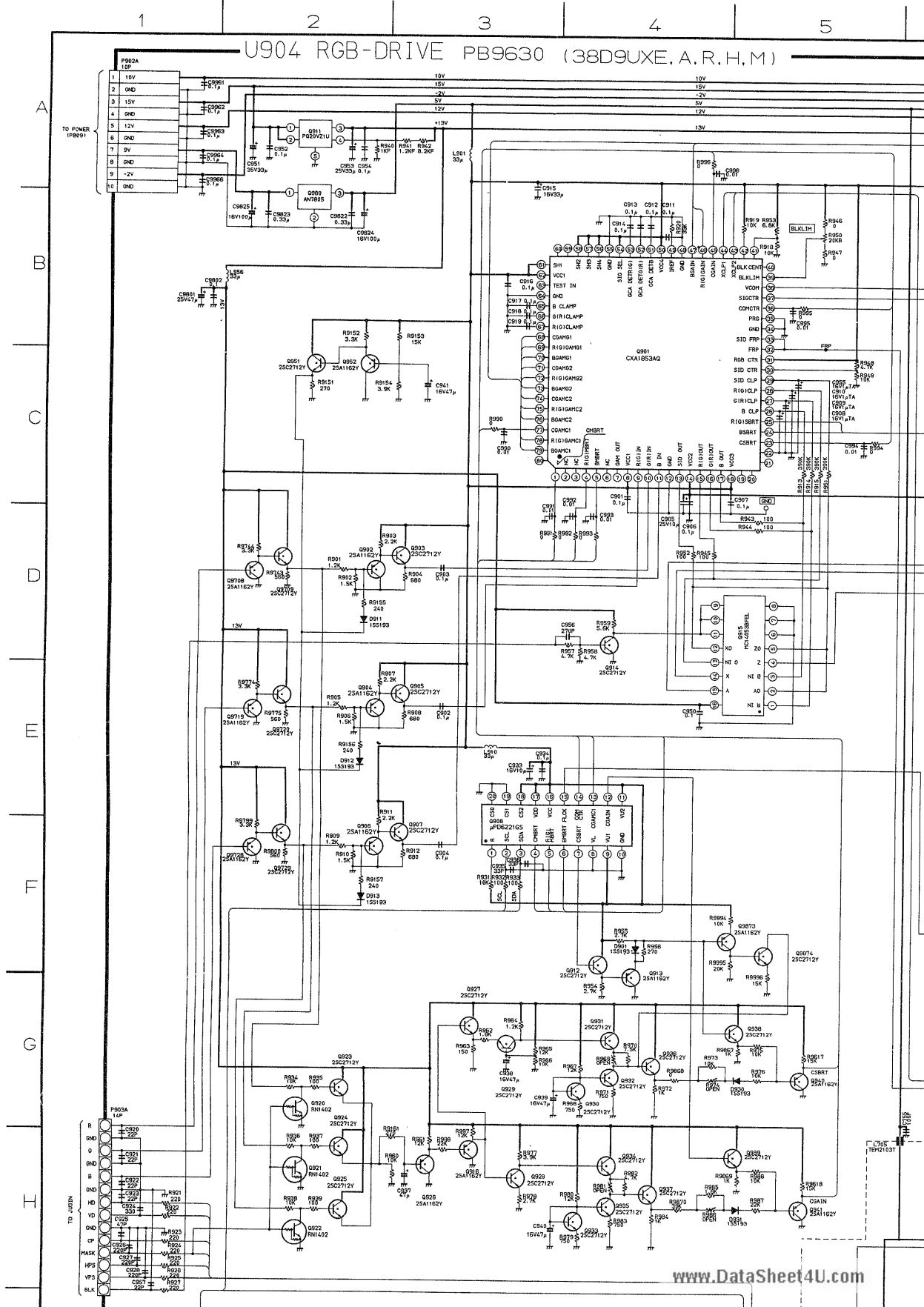
- EXPRESSION**
- VALUE OF RESISTOR, CAPACITOR and INDUCTOR**
1. Resistance is shown in ohms, k=1000, M=1,000,000.
 2. Unless other note noted in schematic, all capacitor values less than 1 are expressed in pF, and the values more than 1 are expressed in μ F, and the values less than 1 in H.



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.

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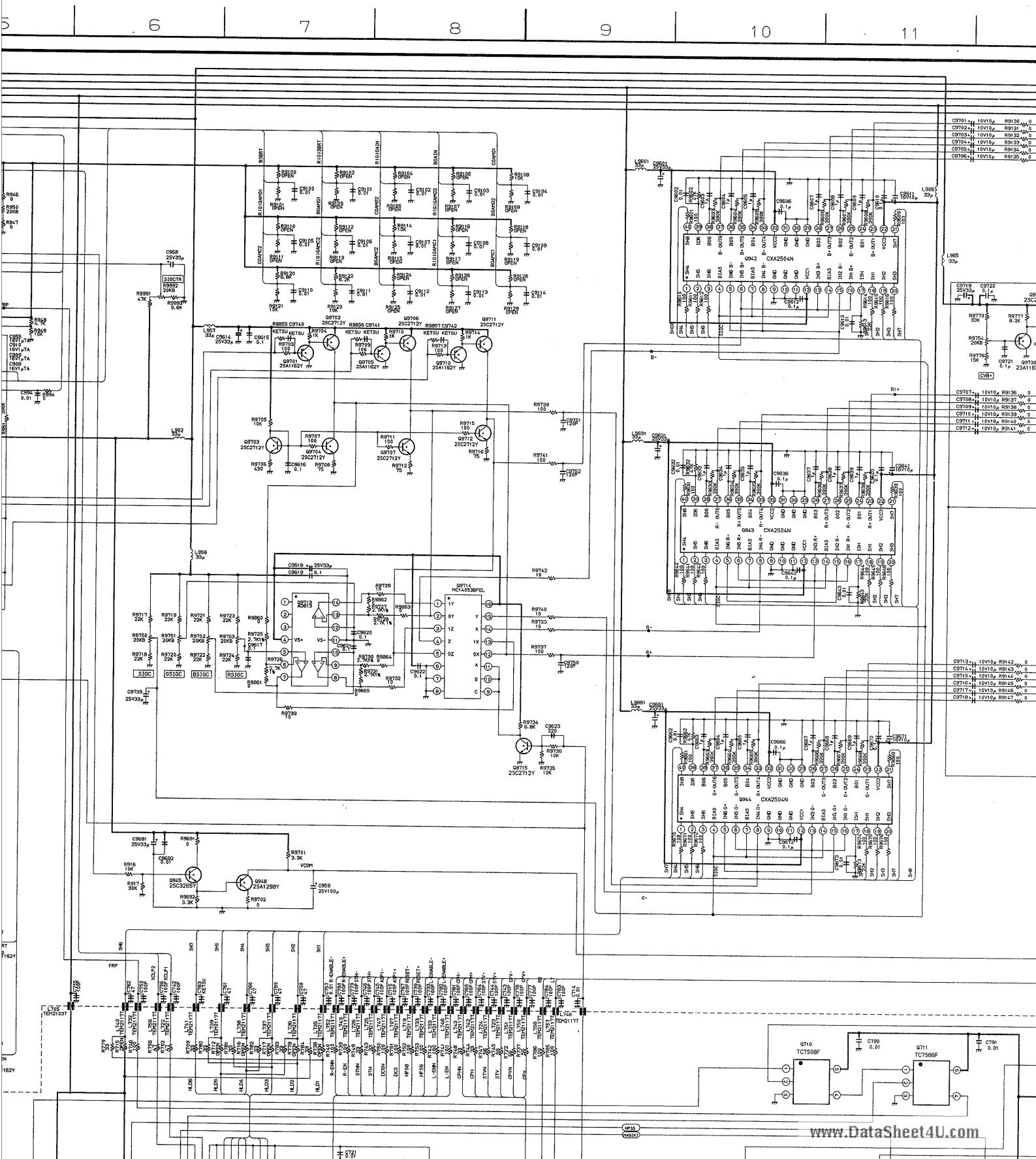
1. Resis
2. Unles
3. Unles

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 dia-gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. \bullet : Solder links.

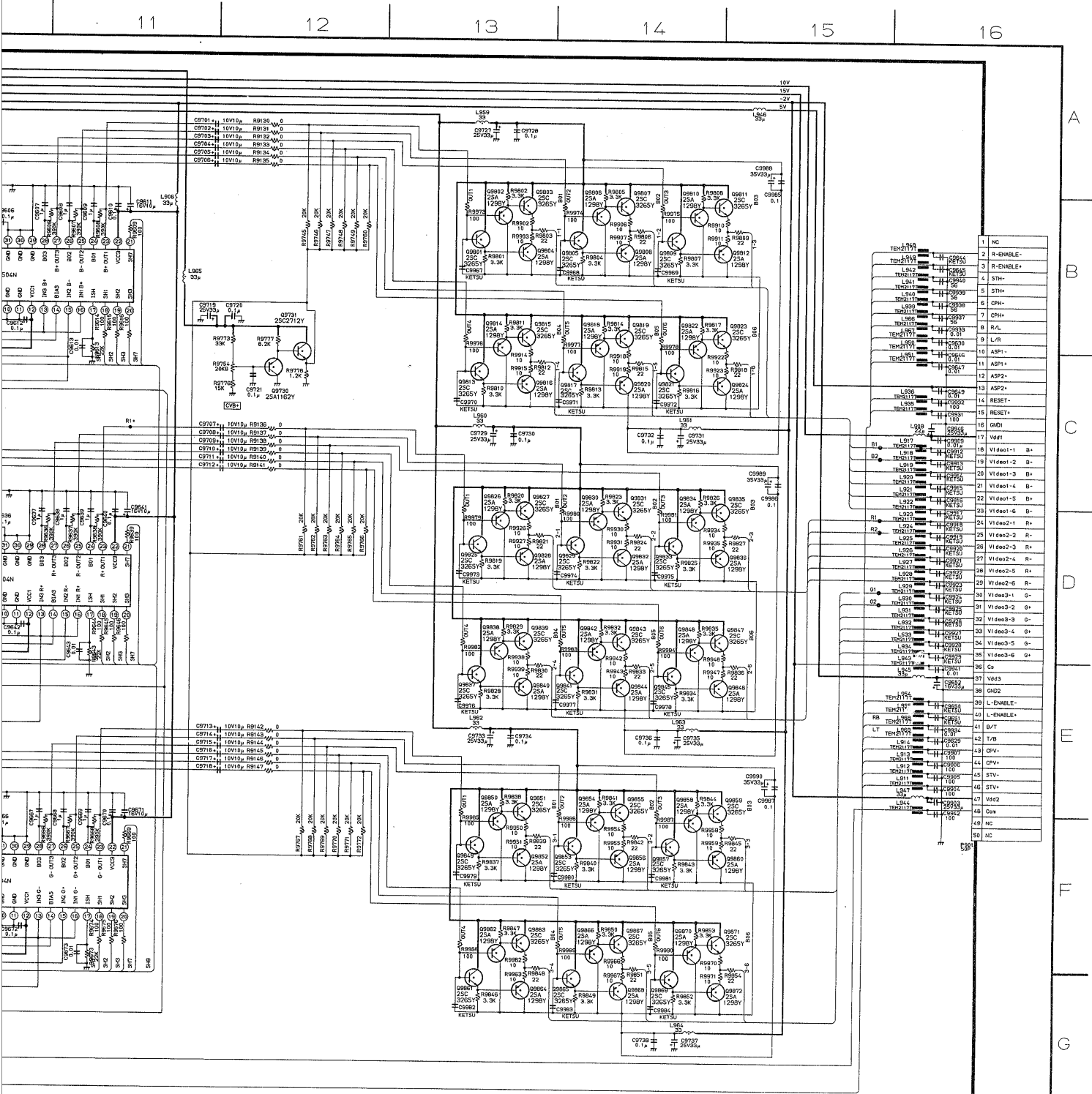


EXPRESSION

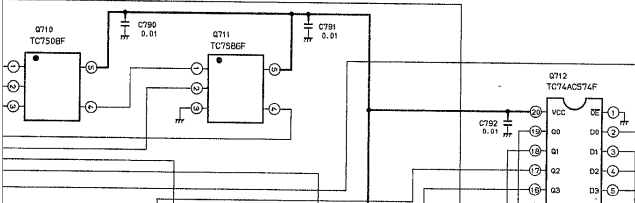
www.DataSheet4U.com VALUE OF RESISTOR, CAPACITOR and INDUCTOR

s schematic dia-

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.



*KETSU means not necessity.



C
D
E
F
G
H
I
J
K
L

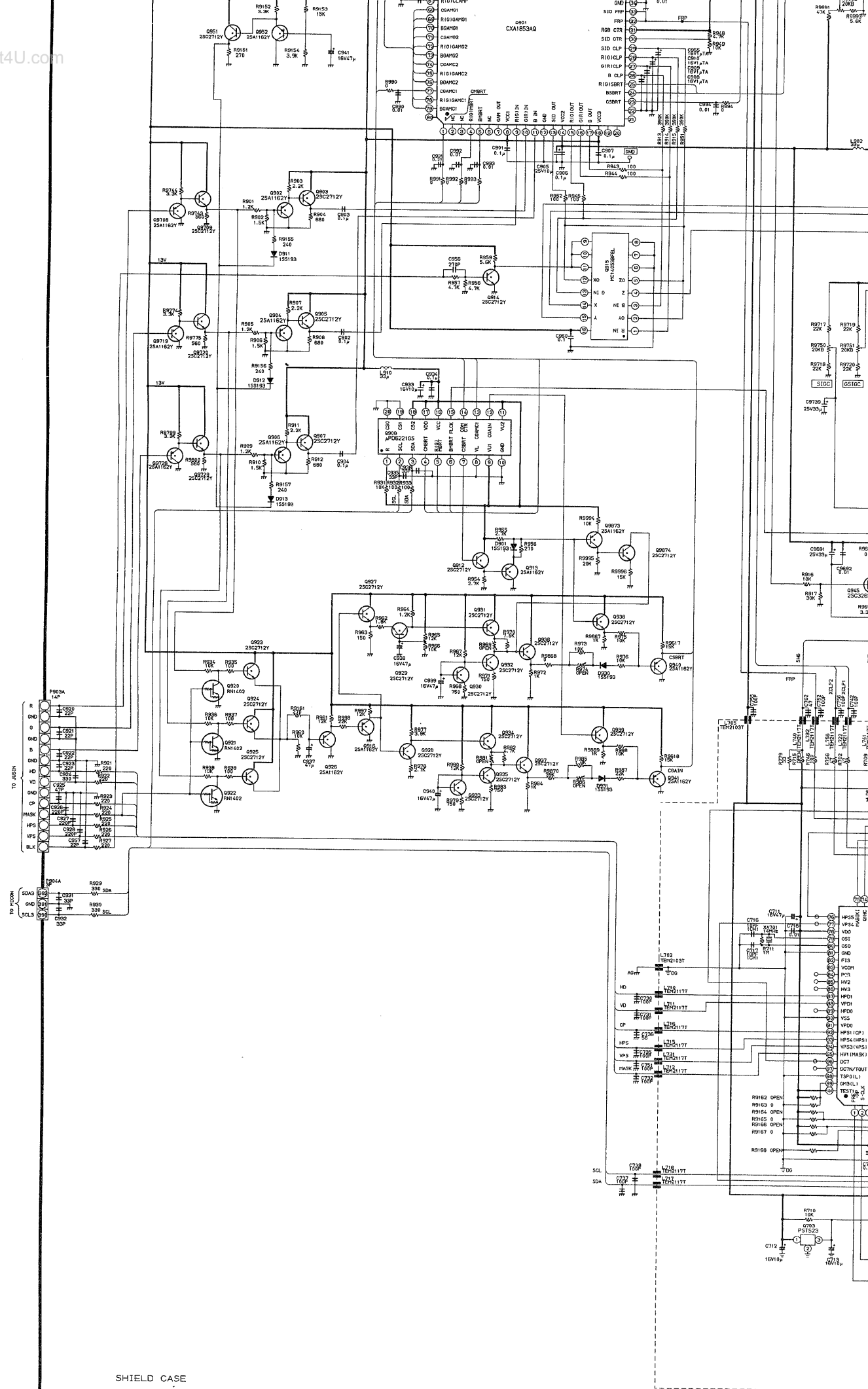
1

2

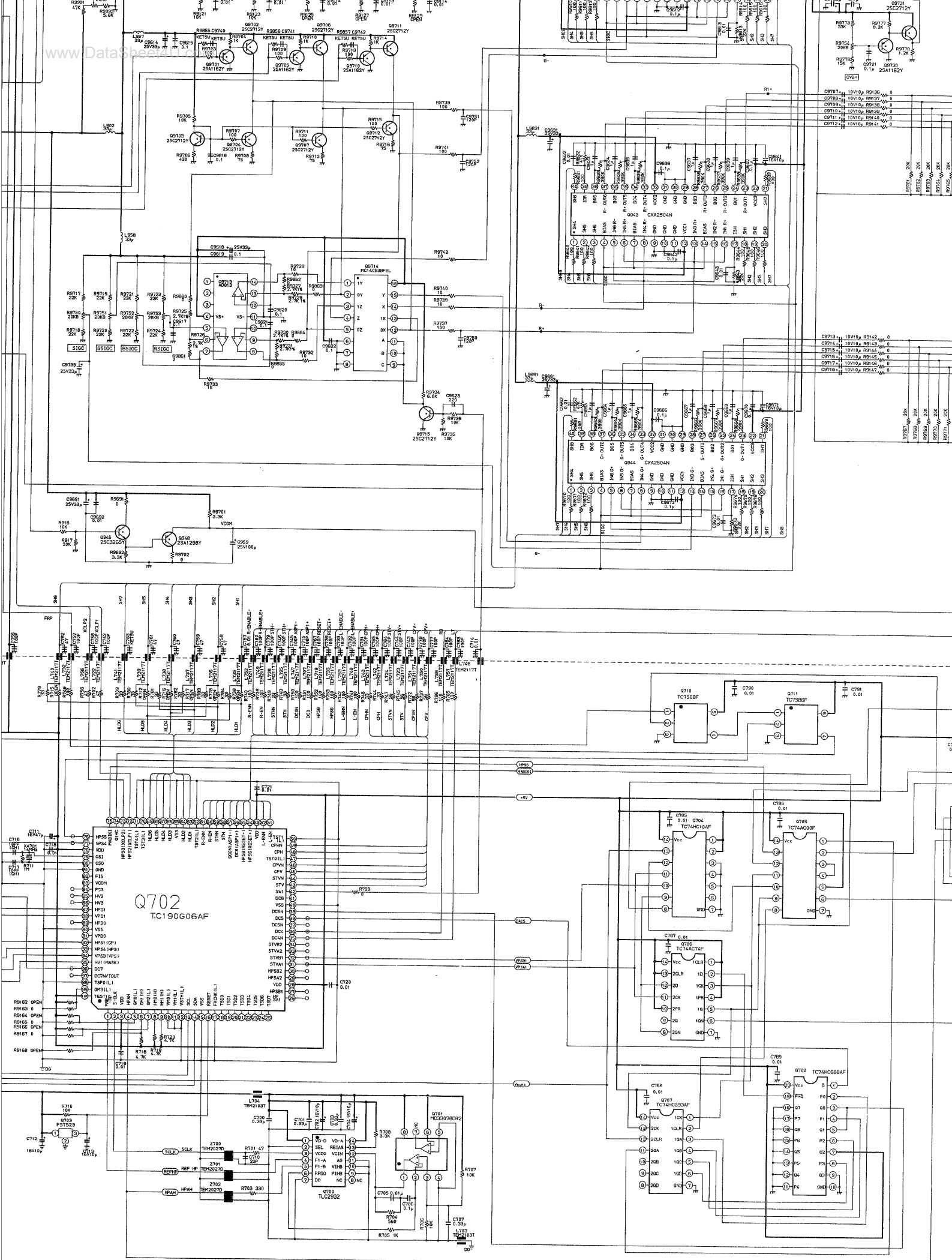
3

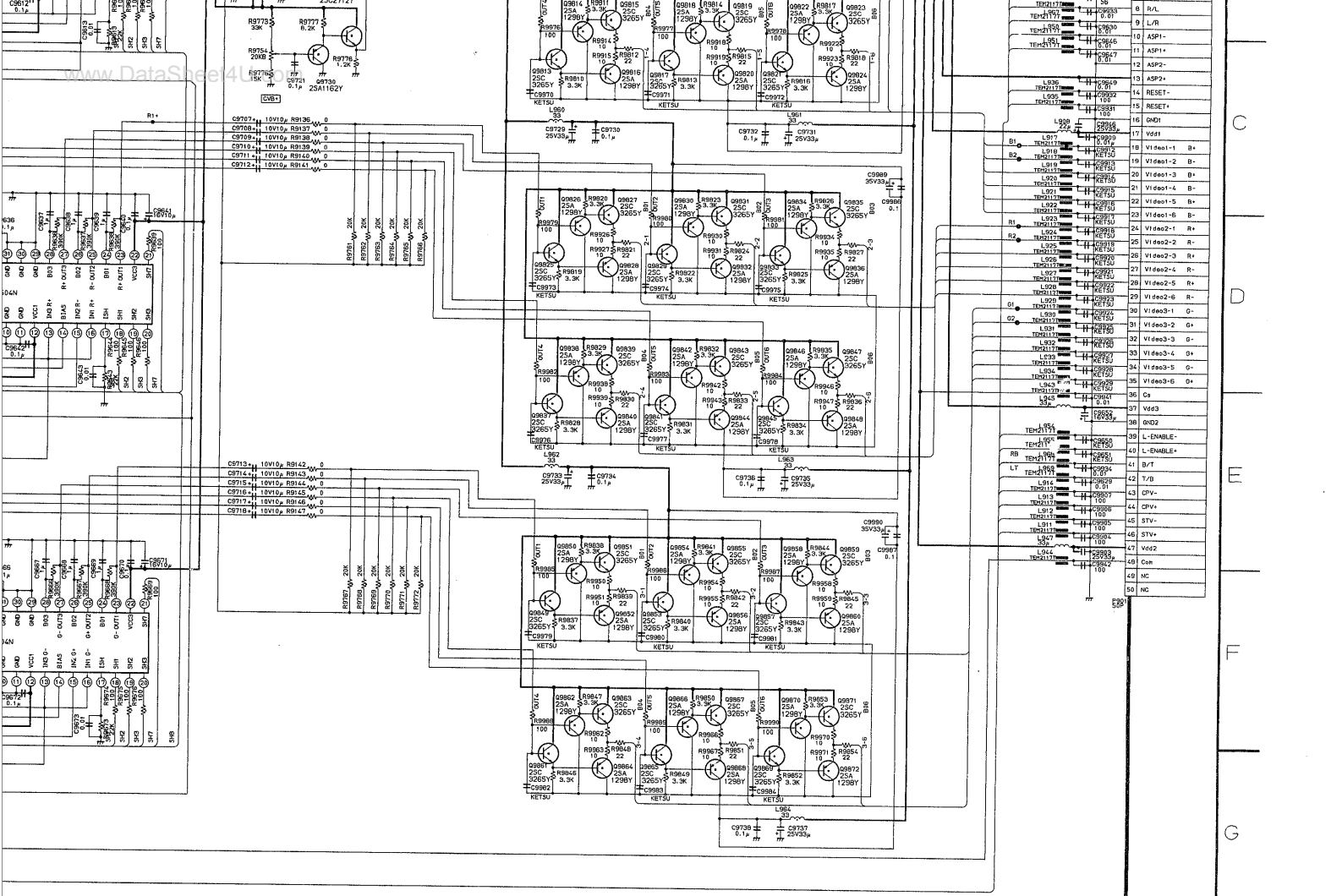
4

6

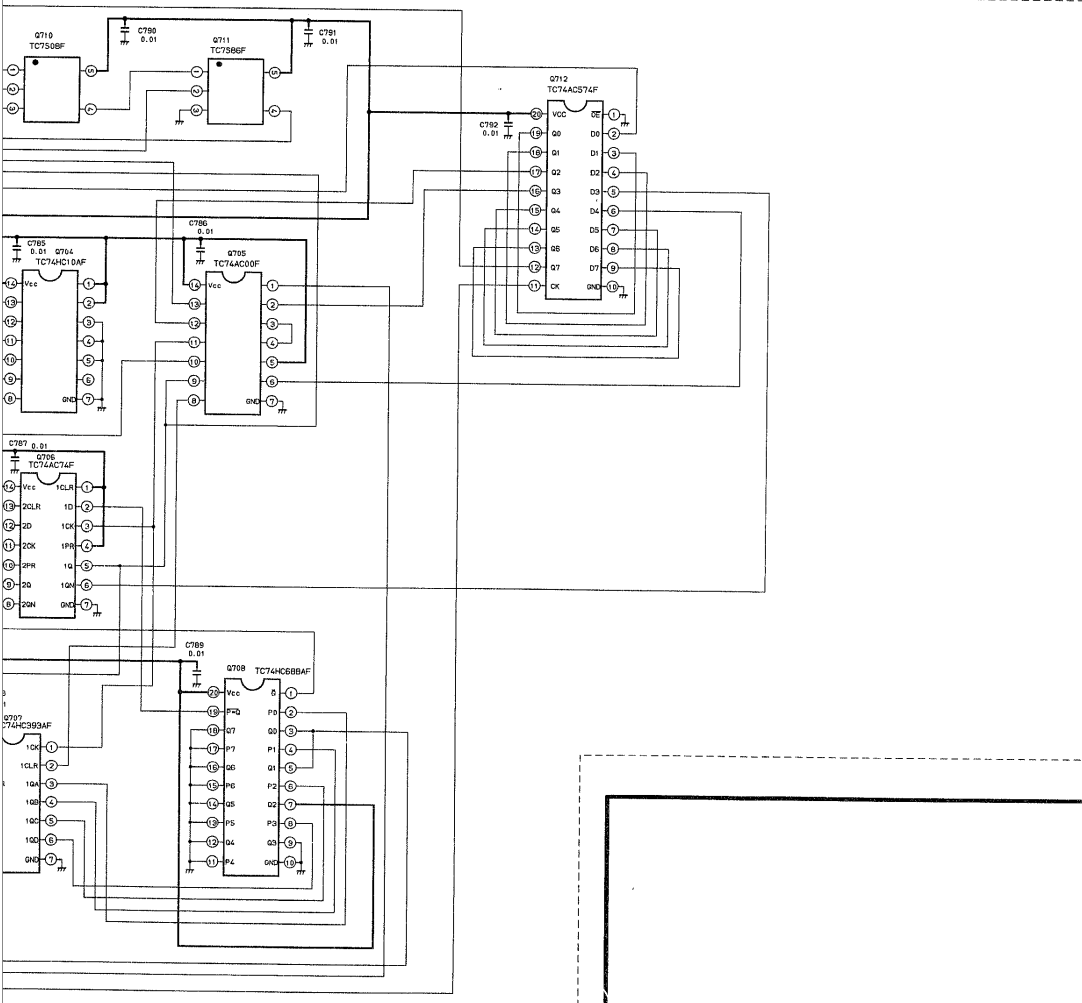


SHIELD CASE





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RGB DRIVE
38D9UXE
38D9UXA 38D9UXR
38D9UXH 38D9UXM