TOSHIBA

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SERVICE MANUAL

COLOUR TELEVISION

C7SS Chassis

32MW8DG
28MW8DG

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 18)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

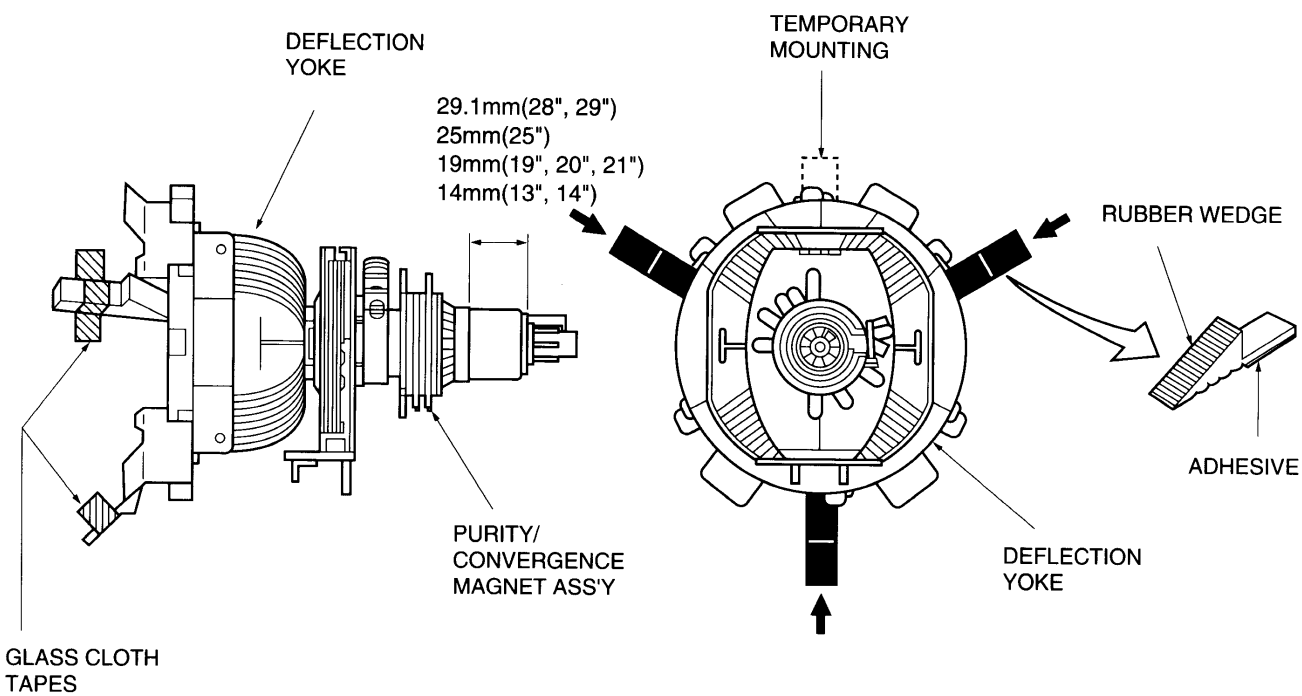


Figure 1.

CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.

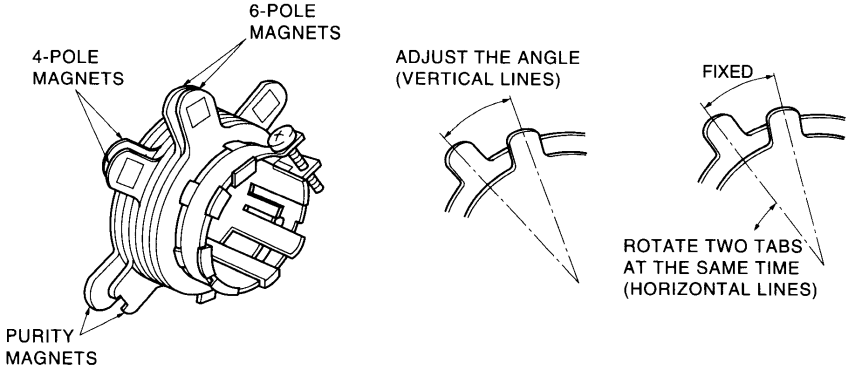


Figure 2.



Center Convergence by Convergence Magnets



Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

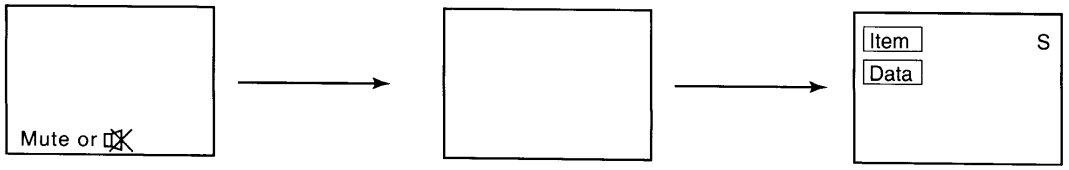
SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

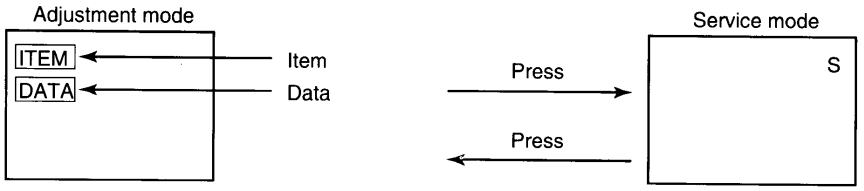
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	- / - - button (on Remote) or ⊖ button (on TV)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"CNTX" (or "SCNT") selection :	4 button
"COLC" selection :	5 button– – – – Color thickness correction
"TNTC" selection :	6 button note: Displayed differently as shown below, depending on the setting of the receiving color system.
Test audio signal ON/OFF (1kHz) :	8 button COLP (PAL)
Self diagnostic display ON/OFF :	9 button COLC (NTSC) COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 18)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

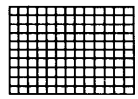
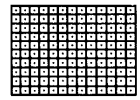
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto search Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of –⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

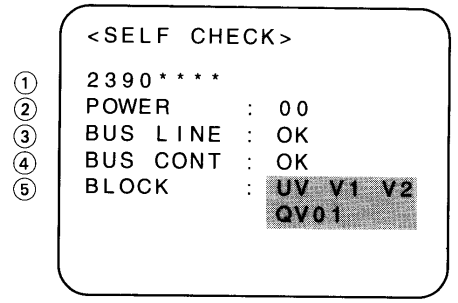
Signal off → NTSC signals (14 patterns)
↑ ← PAL signals (14 patterns) ←┘

Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	
• Black & White	
• Black cross-bar • White cross-bar • Black cross-bar on green raster	
• Black cross-hatch • White cross-hatch	
• Black cross-dot • White cross-dot	
• H signal (white) • H signal (black)	

* The signals marked with ▒ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press "9" button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC's are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----"00" is normal.
When indication is other than "00", overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS LINE CHECK ----"OK" is normal.
"SDA1-GND" ---------- SDA-GND short circuit.
"SCL1-GND" ---------- SCL-GND short circuit.
"SCL1-SDA1" ---------- SCL-SDA short circuit.
④ BUS CONT ----"OK" is normal.
When indication shows "Q ○○○ NG", the device with the number may possibly be damaged.
⑤BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (-Ⓔ1)
V2 : VIDEO 2 input mode (-Ⓔ2)

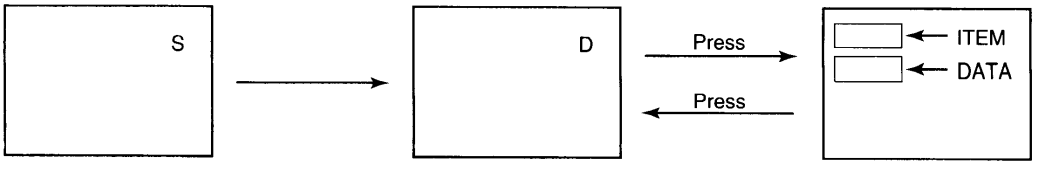
NOTE: Component which controls character display on screen is ICF01 (TELETEXT IC.). If this display function fails to operate due to damage in ICF01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▒ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing 🔇 or CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



(Design mode) (Adjustment mode)

When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1".

2. SELECTING THE ADJUSTING ITEMS

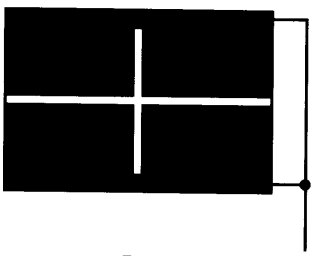
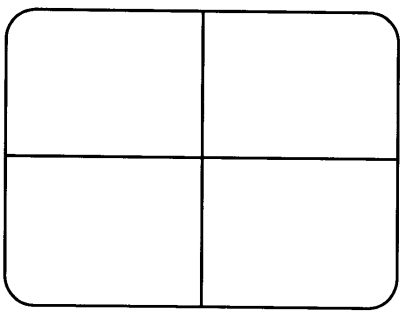
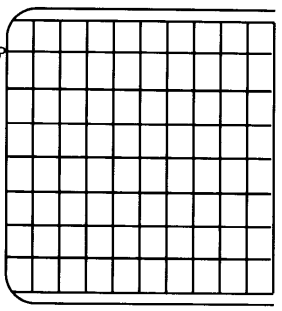
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse order)

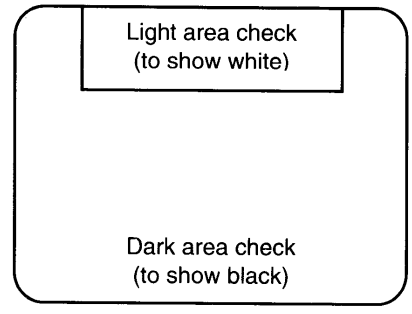
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 18)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ◿ – /+ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ◿ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.  Belt of vertical retrace
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◿ – /+ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◿ – /+ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ◿ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen. The first ☞ 

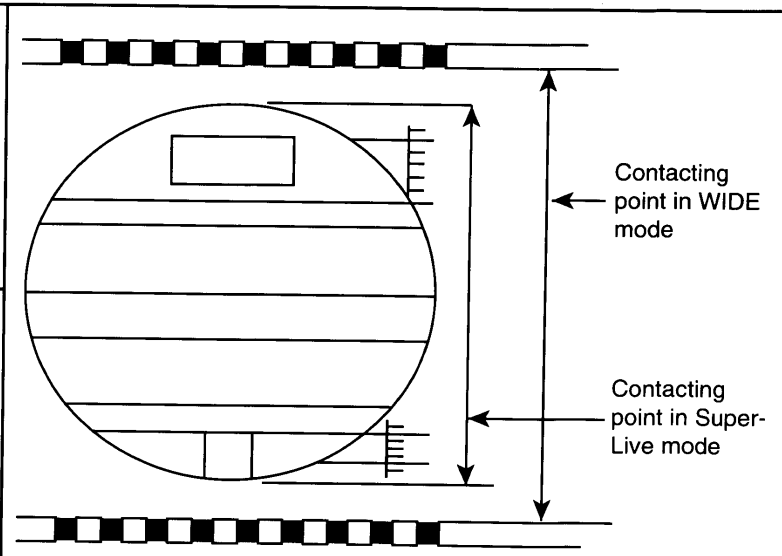
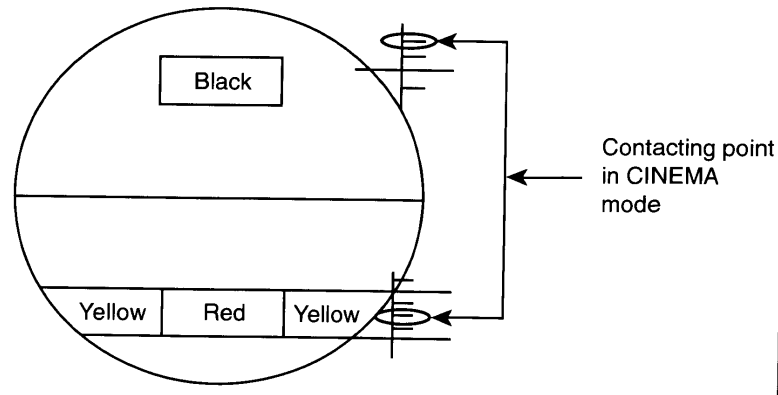
ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT ● CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) ● DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button. 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ◿ – /+ buttons (See page 18). 4. Press [-/- -] button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of [-/- -] button provides Horizontal line picture and Normal picture alternately. 5. Press [-/- -] button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ◿ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT. 

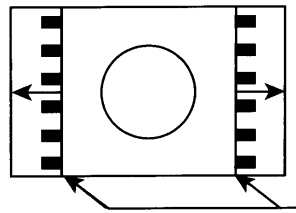
MODEL NAME : C7SS (PAL–100Hz WIDE) (Reference factory adjustments)

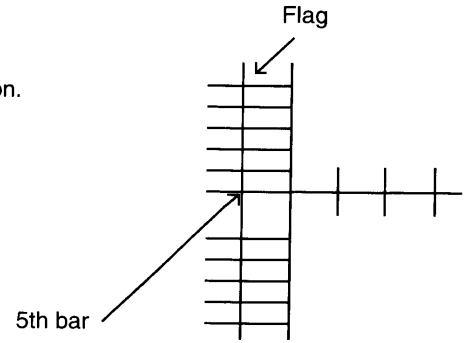
Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[SCNT]	Sub-contrast	Dynamic mode	Sub-bright signal (PAL-I signal)	Q501#55 (TP501)	① Adjust the amplitude from the pedestal level to the white peak.	2.3 ± 0.2 Vp-p
[BRTC]	Sub-bright center	Dynamic mode	Sub-bright signal	Screen adjustment	① Adjust the number of black collapsed lines in the sub-bright signal. ② This adjustment shall be done after the W/B and [SCNT] adjustments.	4 ± 1.5 lines Screen adjustment
[COLP]	Sub-color center PAL	Dynamic mode	Sub-bright signal (PAL)	Q501#55 (TP501)	① Adjust the B-Y amplitude.	1.2 ± 0.2 Vp-p
[RCUT] [GCUT] [BCUT] Screen VR [GDRV] [BDRV]	R cut-off G cut-off B cut-off G drive B drive	[RCUT] : 40H [GCUT] : 40H [BCUT] : 40H Horizontal straight-line mode [GDRV] : 40H [BDRV] : 40H		Screen adjustment	① Set each control as shown in the left column. ② Gradually increase the screen VR until either R, G or B line starts to light up slightly. ③ Determine the screen VR adjustment position here. ④ Gradually increase remaining two screen VRs until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) ⑤ Exit from the horizontal straight-line mode. ⑥ Using CA100, repeat this adjustment until correct value is set to both the dark and bright parts.	<table><tr><td>Bright part (103cd/m²)</td><td>Dark part (17cd/m²)</td></tr><tr><td>8750K-0.002uv</td><td>8750K-0.002uv</td></tr></table> Bright part (CA100)

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[BELL]	BELL filter		SECAM color bar	QQ01#21 (TPM01)	① Vary the [BELL] until the waveform on the synchroscope becomes flat.	100 ± 10%
[SRY]	SECAM R-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Vary the [SRY] until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40 mV
[SBY]	SECAM R-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Vary the [SBY] until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40 mV
[COLS]	Sub-color center SECAM	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Adjust the R-Y amplitude. (During this adjustment apply the picture mute.)	1.6 ± 0.2 (0-p) * (Pedestal to Peak)

Adjustment parts	Input point / Output point	Adjustment signal	Adjustment conditions and procedures
Horizontal synchronizing VR adjustment. R4450	DEF UNIT	———	① Supply +12.0V to the HVCC terminal (P813B#57). ② Using a frequency counter, adjust the VR so that the frequency at the Q420#16 terminal becomes 31.36 ±0.15Hz. ※ When supplying power, connect the power supply to GND of negative side of C4311.

	Adjustment Item	Adjustment Procedure	
Vertical	WIDE mode Vertical amplitude [HIT]	PAL WG Phillips pattern, User adjustment standard. Adjust the vertical amplitude by [HIT] so that both upper and lower flags disappear from the screen.	
	Vertical position [GMPO]	PAL Phillips pattern, User adjustment standard. Adjust the vertical position [GMPO] so that the vertical screen position of the Phillips pattern comes to the center of the screen (see the right sketch).	
	Super-Live mode Vertical amplitude [HIT]	PAL Phillips pattern, User adjustment standard. Adjust the vertical amplitude by [HIT] so that the top and bottom of the circle of the Phillips pattern touch the CPT mask (see the right sketch).	
	CINEMA mode Vertical amplitude [HIT]	Phillips pattern, User adjustment standard. Adjust the vertical amplitude by [HIT] so that the points shown in the right bottom sketch touch the CRT mask (see the right sketch).	

No	Applicable Models	Adjustment Item	Adjustment Procedures
1	32MW8DG	Focus adjustment (1) HOR. FOCUS	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume (F1) of the focus pack (Z410) to the fully counterclockwise position.
		Focus adjustment (2) VERT. FOCUS	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume (F2) of the focus pack (Z410) to the fully counterclockwise position.
	28MW8DG	Focus adjustment	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume of the flyback transformer (T461) to the fully counterclockwise position.
2	All models	Vertical position adjustment	Conditions) PAL, WG Phillips pattern WIDE mode, User adjustment standard Adjustment) Adjust [GMPO] so that both top and bottom positions touch the mask. (This adjustment shall be done with the CPT facing south or north. If this cannot be done, offset the deviation.)
3	All models	Horizontal position adjustment	Conditions) PAL, WG Phillips pattern WIDE mode, User adjustment standard Adjustment) With the VR (R451), adjust the frame of both left and right flags to the mask. (If necessary, also adjust the horizontal amplitude.)  Adjust the frame of the flags to the mask.

	Adjustment Item	Adjustment Procedures
Horizontal	WIDE mode (4:3 mode) Horizontal position (R451) Horizontal amplitude [WIDE] Side DPC [PARA] Trapezoidal distortion [TRAP]	With the PAL, WG Phillips pattern, in the WIDE mode, adjust the horizontal amplitude so that the mask comes to the frames of left and right flags. With the PAL, WG Phillips pattern, in the WIDE mode, adjust the horizontal position to minimize the side pincushion distortion and trapezoidal distortion. Note) This adjustment shall be done at the same time as the horizontal position adjustment item in the volume adjustment. If the horizontal position cannot be adjusted to the center by the volume, adjust the horizontal amplitude until the flag frame touches the mask. Confirm the side pincushion distortion in the 4:3 mode. (If necessary, reconfirm it with observing the quality of the side panel in 4:3 mode.)
	Super-Live mode Horizontal amplitude Side DPC Trapezoidal distortion	In the WIDE mode with the PAL Phillips pattern : Adjust the 5th bar in the left and right flags to the mask. Adjust to minimize the side pincushion distortion and trapezoidal distortion. 
	CINEMA mode Horizontal amplitude Side DPC Trapezoidal distortion	In the CINEMA mode with the PAL Phillips pattern : Adjust the horizontal amplitude so that mask comes to the frames of the left and right flags. Adjust to minimize the side pincushion distortion and trapezoidal distortion.

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

Refer to table-1 for high voltage (B).
(See SETTING & ADJUSTING DATA on page 18)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		32"	28"
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.9 kV	33.2kV
MAX HIGH VOLTAGE:	(B)	34.0 kV	34.0kV
AV VOLTAGE	(C)	220~240 V	220~240V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Name of adjustment	Preset	28"	32"
RCUT	R CUTOFF (B/W)	40H	←	←
GCUT	G CUTOFF (B/W)	40H	←	←
BCUT	B CUTOFF (B/W)	40H	←	←
GDRV	G DRIVE	40H	←	←
BDRV	B DRIVE	40H	←	←
BRTC	SUB BRIGHT CEN	80H	←	←
COLP	SUB COLOR CEN PAL	2AH	←	←
COLS	SUB COLOR CEN SECAM	F0H	←	←
HIT	HEIGHT	28H	33H	28H
HIT	(SUPER LIVE)	30H	3BH	30H
HIT	(CINEMA)	45H	45H	45H
HIT	(14:9) ONLY	38H	45H	38H
VLIN	V-LINEARITY	15H	16H	15H
VLIN	(SUPER LIVE)	14H	15H	14H

Item	Name of adjustment	Preset	28"	32"
VLIN	(CINEMA)	16H	17H	16H
VLIN	(14:9) ONLY	15H	18H	15H
WID	PICTURE WIDTH (SUP.)	2BH	←	←
WIDE	(CINEMA)	2AH	←	←
PARA	E-W PARABOLA	1CH	←	←
PARA	(SUPER LIVE)	1EH	←	←
PARA	(CINEMA)	31H	←	←
TRAP	TRAPEZIUM	48H	←	←
TRAP	(SUPER LIVE)	48H	←	←
TRAP	(CINEMA)	45H	←	←
GMPO	GMPO	00H	←	←
GMPO	(SUPER LIVE)	00H	←	←
GMPO	(CINEMA)	00H	←	←
GMPO	(14:9) ONLY	00H	←	←

Table-2

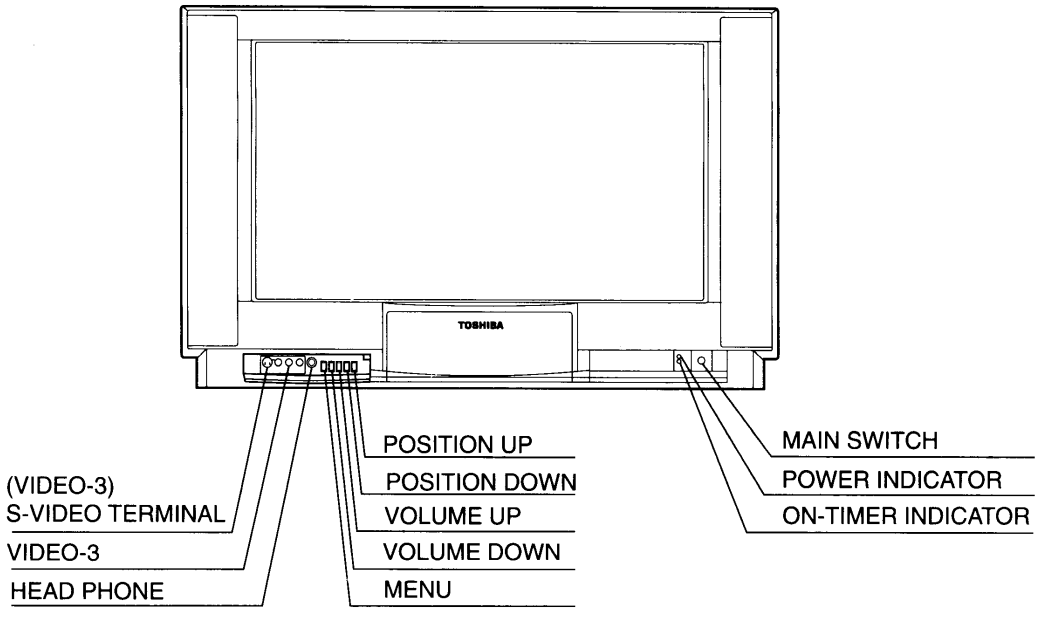
【 DESIGN MODE 】

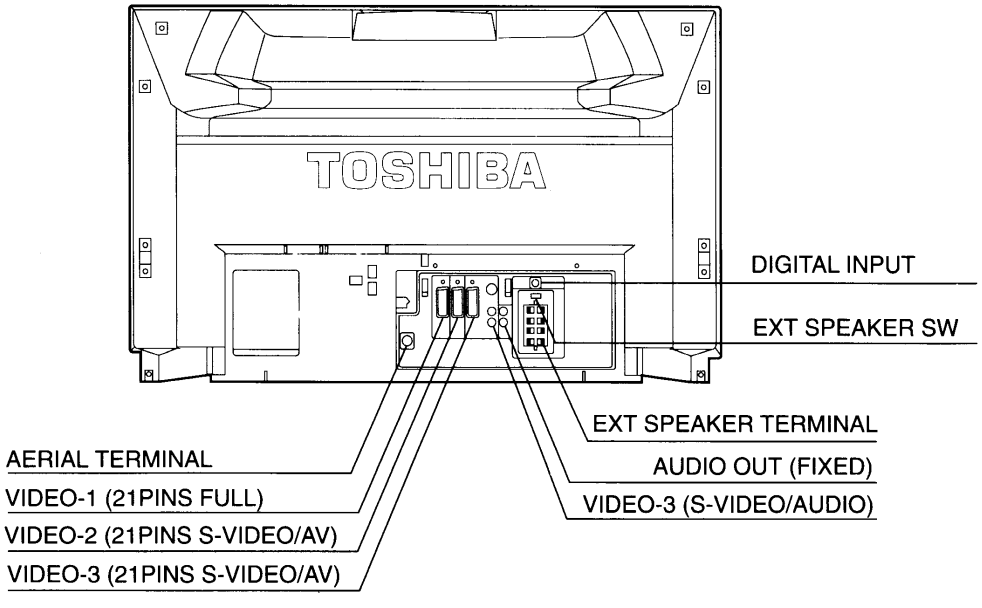
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	Data	Remarks
* There are no adjusting item in the DESIGN MODE.				

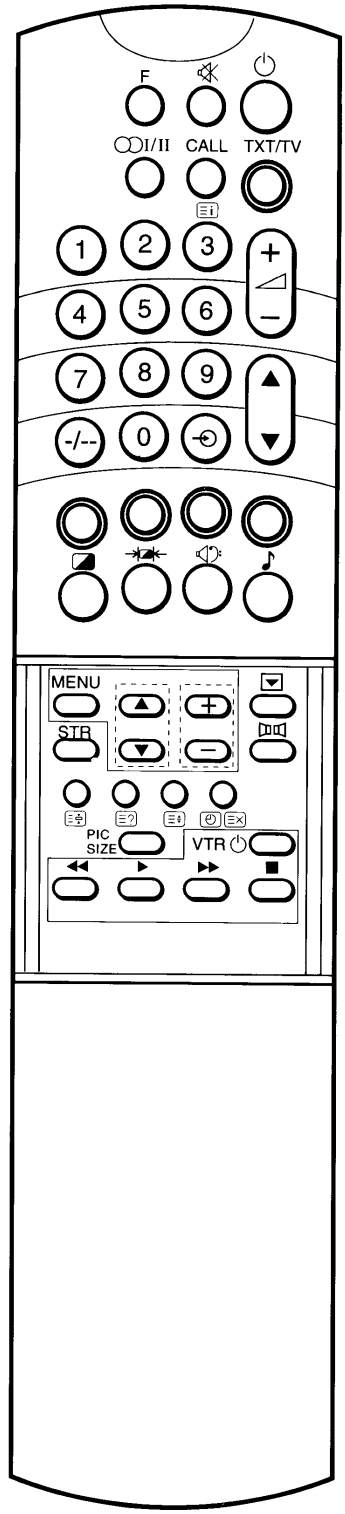
Table-3

LOCATION OF CONTROLS (Representative: 28MW8DG)





Remote



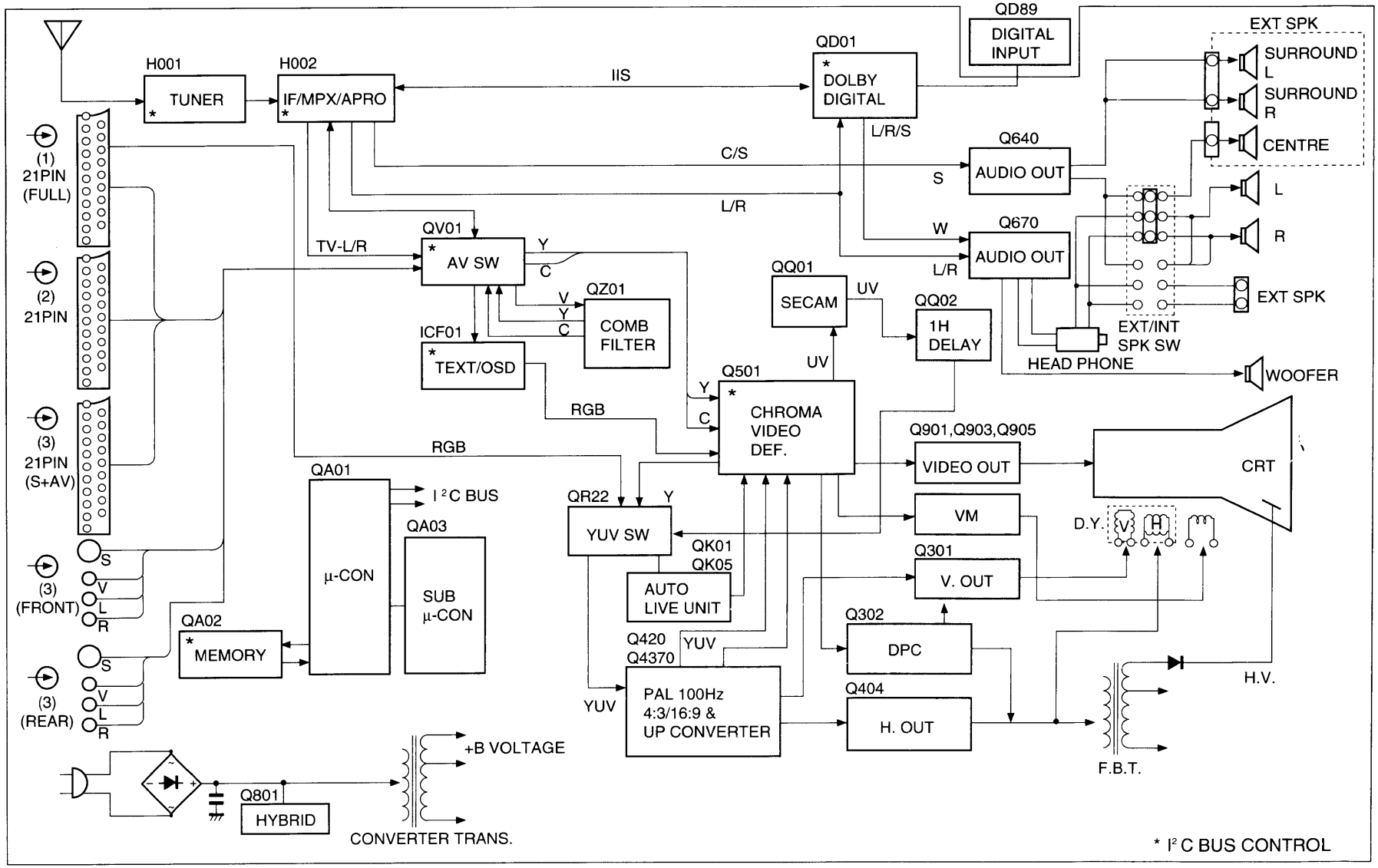
KEY ASSIGNMENT

⏻ ..... ON/STAND-BY
🔇 ..... Sound mute
F ..... (Quick/advanced operation)
CALL (On-screen call)/ⓘ (index, initial) ..... TELETEXT MODE
◪ ..... PICTURE MENU
♪ ..... SOUND MENU
I/II ..... <TV MODE> ..... STEREO BILINGUAL
1~9, 0 ..... TEN KEY
- / - -..... 1 or 2 place
⊖ ..... VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
◿ ..... VOLUME
+ ..... LEVEL PLUS (VOLUME, MENU)
– ..... LEVEL MINUS (VOLUME, MENU)
▲ ..... UP (POSI., CH., TEXT PAGE)
▼ ..... DOWN (POSI., CH., TEXT PAGE)

TELE-TEXT
- TXT/TV ... TEXT, MIX, TV MODE SW.
- ⊞ ..... HOLD
- ⊡ ..... <TEXT MODE> ..... REVEAL / CONCEAL
- ⊟ ..... <TEXT MODE> ..... F-T-B (FULL, TOP, BOTTOM)
- ⊙/⊠..... TIME DISPLAY (TV MODE) TEXT CLEAR (TEXT MODE)
- FLOF COLOUR KEY (4 key used) Red/Green/Yellow/Blue

Super woofer
▼ ..... Still
DSP/Surround
Selectable picture
MENU..... TUNING & OTHER MENU
⊕ / ⊖ ..... Menu select
⊖ / ⊕..... Level down/up
PIC SIZE ..... PIC SIZE (Picture size select)
STR ..... Store
▲/▼ ..... Menu Select
+/– ..... Level up/down
VTR control
⏻ Power on/standby
▶ Play
■ Stop
◀◀ Rewind
▶▶ Fast forward

CIRCUIT BLOCK DIAGRAM



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

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. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing. be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Models : 32MW8DG/28MW8DG

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	:	Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	:	Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	:	Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

SPECIFIC INFORMATIONS

Location No.	Part No.	Description
CAPACITORS		
C101	24797229	EL, 2.2μF, ±20%, 50V
C105	24232103	CD, 0.01μF, +80%, -20%
C106	24797100	EL, 10μF, ±20%, 50V
C107	24794221	EL, 220μF, ±20%, 16V
C108	24793471	EL, 470μF, ±20%, 10V
C109	24232103	CD, 0.01μF, +80%, -20%
C116	24794221	EL, 220μF, ±20%, 16V
C117	24232103	CD, 0.01μF, +80%, -20%
C118	24232103	CD, 0.01μF, +80%, -20%
C119	24232103	CD, 0.01μF, +80%, -20%
C120	24232103	CD, 0.01μF, +80%, -20%
C183	24797479	EL, 4.7μF, ±20%, 50V
C198	24232103	CD, 0.01μF, +80%, -20%
C199	24794221	EL, 220μF, ±20%, 16V
C201	24669100	EL, 10μF, ±20%, 50V
C203	24538104	PF, 0.1μF
C204	24669010	EL, 1μF, ±20%, 50V
C205	24669229	EL, 2.2μF, ±20%, 50V
C206	24797220	EL, 22μF, ±20%, 50V
C207	24781100	Chip, 10pF, ±0.5%, SL
C208	24781100	Chip, 10pF, ±0.5%, SL
C209	24781100	Chip, 10pF, ±0.5%, SL
C212	24794100	EL, 10μF, ±20%, 16V
C213	24473100	CD, 10pF
C214	24591334	PF, 0.33μF
C215	24781101	Chip, 100pF, SL
C216	24781101	Chip, 100pF, SL
C218	24781390	Chip, 39pF, SL
C230	24763221	EL, 220μF, ±20%, 16V
C231	24473330	CD, 33pF
C273	24797229	EL, 2.2μF, ±20%, 50V
C303	24214471	CD, 470pF, ±10%, 500V
C304	24082049	PF, 0.047μF, 100V
C305	24617912	EL, 2.2μF, ±10%, 50V
C306	24795332	EL, 3300μF, 25V
C307	24793101	EL, 100μF, ±20%, 10V
C308	24797221	EL, 220μF, ±20%, 50V
C309	24797101	EL, 100μF, ±20%, 50V
C310	24796222	EL, 2200μF, ±20%, 35V
C311	24590473	PF, 0.047μF

Location No.	Part No.	Description
C312	24590273	PF, 0.027μF
C313	24082058	PF, 0.27μF, 100V
C315	24797229	EL, 2.2μF, ±20%, 50V
C316	24212102	CD, 1000pF, ±10%
C331	24797101	EL, 100μF, ±20%, 50V
C366	24082049	PF, 0.047μF, 100V
C370	24794101	EL, 100μF, ±20%, 16V
C371	24794100	EL, 10μF, ±20%, 16V
C401	24538104	PF, 0.1μF
C403	24591103	PF, 0.01μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C410	24092341	CD, 470pF, ±10%, 2kV
C413	24214332	CD, 3300pF, ±10%, 500V
C416	24668101	EL, 100μF, ±20%, 35V
C417	24214391	CD, 390pF, ±10%, 500V
C419	24212102	CD, 1000pF, ±10%
C420	24666101	EL, 100μF, ±20%, 16V
C421	24538104	PF, 0.1μF
C423	24829473	PF, 0.047μF, 400V
C430	24814103	Chip, 0.01μF, +80%, -20%
C431	24232103	CD, 0.01μF, +80%, -20%
C431	24763102	EL, 1000μF, ±20%, 16V
C439	24082830	PF, 3000pF, ±3%, 1800V
C440	24082830	PF, 3000pF, ±3%, 1800V
C442	24082643	PF, 0.18μF, 400V
C443	24082644	PF, 0.2μF, 400V
C444	24082828	PF, 2400pF, ±3%, 1800V
C445	24828473	PF, 0.047μF, 200V
C446	24679330	EL, 33μF, ±20%, 250V
C447	24082644	PF, 0.22μF, 400V (32MW8DG)
C448	24640908	EL, 33μF, ±20%, 160V
C460	24796331	EL, 330μF, ±20%, 35V
C461	24082828	PF, 2400pF, ±3%, 1800V
C462	24795222	EL, 2200μF, ±20%, 25V
C463	24212392	CD, 3900pF, ±10%
C464	24640900	EL, 4.7μF, ±20%, 100V
C466	24820822	PF, 8200pF, 630V
C470	24794220	EL, 22μF, ±20%, 16V
C472	24538474	PF, 0.47μF
C473	24669010	EL, 1μF, ±20%, 50V
C475	24095887	PF, 0.01μF, ±3%, 630V

Location No.	Part No.	Description
C477	24591563	PF, 0.056μF
C478	24567334	PF, 0.33μF
C479	24214471	CD, 470pF, ±10%, 500V
C481	24567474	PF, 0.47μF
C483	24591152	PF, 1500pF
C491	24082749	PF, 1.5μF, 250V
C492	24082645	PF, 0.22μF, 400V
C494	24082644	PF, 0.2μF, 400V
C495	24092343	CD, 680pF, ±10%, 2kV
C496	24092343	CD, 680pF, ±10%, 2kV
C501	24781101	Chip, 100pF, SL
C502	24814103	Chip, 0.01μF, +80%, –20%
C503	24763221	EL, 220μF, ±20%, 16V
C504	24591222	PF, 2200pF
C505	24774120	Chip, 12pF, CH
C507	24774120	Chip, 12pF, CH
C508	24669100	EL, 10μF, ±20%, 50V
C509	24763101	EL, 100μF, ±20%, 16V
C510	24763101	EL, 100μF, ±20%, 16V
C511	24814103	Chip, 0.01μF, +80%, –20%
C512	24206228	EL, 0.22μF, 50V
C513	24814103	Chip, 0.01μF, +80%, –20%
C514	24538104	PF, 0.1μF
C515	24538104	PF, 0.1μF
C516	24781102	Chip, 1000pF, SL
C517	24774010	Chip, 1pF, ±0.25pF
C519	24774010	Chip, 1pF, ±0.25pF
C520	24781102	Chip, 1000pF, SL
C521	24781102	Chip, 1000pF, SL
C522	24781470	Chip, 47pF, SL
C523	24781470	Chip, 47pF, SL
C524	24781122	Chip, 1200pF, SL
C525	24774181	Chip, 180pF, SL
C526	24474101	CD, 100pF, ±10%
C526	24092178	Chip, 0.1μF, ±10%, B
C527	24851104	CD, 0.1μF, ±10%, 25V
C613	24794101	EL, 100μF, ±20%, 16V
C630	24590102	PF, 1000pF
C631	24206010	EL, 1μF, 50V
C632	24797479	EL, 4.7μF, ±20%, 50V
C633	24538124	PF, 0.12μF
C634	24796471	EL, 470μF, ±20%, 35V
C641	24206010	EL, 1μF, 50V
C644	24206010	EL, 1μF, 50V
C645	24795470	EL, 47μF, ±20%, 25V
C647	24591102	PF, 1000pF
C648	24590562	PF, 5600pF
C649	24206229	EL, 2.2μF, 50V
C650	24796101	EL, 100μF, ±20%, 35V
C651	24668471	EL, 470μF, ±20%, 35V
C652	24668471	EL, 470μF, ±20%, 35V
C654	24591124	PF, 0.12μF
C655	24591124	PF, 0.12μF
C656	24232103	CD, 0.01μF, +80%, –20%
C660	24206229	EL, 2.2μF, 50V
C661	24538104	PF, 0.1μF
C663	24797229	EL, 2.2μF, ±20%, 50V
C664	24203100	EL, 10μF, ±20%, 16V
C665	24206229	EL, 2.2μF, 50V
C666	24206229	EL, 2.2μF, 50V
C667	24232103	CD, 0.01μF, +80%, –20%
C667	24797229	EL, 2.2μF, ±20%, 50V
C668	24232103	CD, 0.01μF, +80%, –20%
C668	24794100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
C669	24668330	EL, 33μF, ±20%, 35V
C670	24668330	EL, 33μF, ±20%, 35V
C671	24212102	CD, 1000pF, ±10%
C671	24797010	EL, 1μF, ±20%, 50V
C672	24212102	CD, 1000pF, ±10%
C673	24797010	EL, 1μF, ±20%, 50V
C673	24474102	CD, 1000pF, ±10%
C674	24797010	EL, 1μF, ±20%, 50V
C674	24474102	CD, 1000pF, ±10%
C675	24795470	EL, 47μF, ±20%, 25V
C675	24474102	CD, 1000pF, ±10%
C676	24797479	EL, 4.7μF, ±20%, 50V
C676	24474102	CD, 1000pF, ±10%
C677	24590102	PF, 1000pF
C677	24212102	CD, 1000pF, ±10%
C678	24474102	CD, 1000pF, ±10%
C678	24590102	PF, 1000pF
C679	24538104	PF, 0.1μF
C679	24474102	CD, 1000pF, ±10%
C680	24668102	EL, 1000μF, ±20%, 35V
C680	24212102	CD, 1000pF, ±10%
C681	24474102	CD, 1000pF, ±10%
C681	24668471	EL, 470μF, ±20%, 35V
C682	24474102	CD, 1000pF, ±10%
C682	24668471	EL, 470μF, ±20%, 35V
C683	24232103	CD, 0.01μF, +80%, –20%
C683	24668102	EL, 1000μF, ±20%, 35V
C684	24232103	CD, 0.01μF, +80%, –20%
C684	24590124	PF, 0.12μF
C685	24590124	PF, 0.12μF
C685	24232103	CD, 0.01μF, +80%, –20%
C686	24590124	PF, 0.12μF
C686	24232103	CD, 0.01μF, +80%, –20%
C687	24232103	CD, 0.01μF, +80%, –20%
C688	24203220	EL, 22μF, ±20%, 16V
C689	24797010	EL, 1μF, ±20%, 50V
C690	24590562	PF, 5600pF
C691	24590333	PF, 0.033μF
C695	24762222	EL, 2200μF, ±20%, 10V
C704	24232103	CD, 0.01μF, +80%, –20%
C705	24797229	EL, 2.2μF, ±20%, 50V
C707	24794470	EL, 47μF, ±20%, 16V
C712	24666470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24794470	EL, 47μF, ±20%, 16V
C719	24435151	CD, 150pF, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721	24794470	EL, 47μF, ±20%, 16V
⚠C801	24082927	PF, 0.22μF, ±20%, AC275V
⚠C802	24082927	PF, 0.22μF, ±20%, AC275V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C808	24667331	EL, 330μF, ±20%, 25V
C809	24214471	CD, 470pF, ±10%, 500V
C810	24086063	EL, 330μF, ±20%, 400V
⚠C811	24092557	CD, 2200pF, ±20%, AC275V
⚠C813	24092555	CD, 1000pF, ±20%, AC250V
⚠C814	24092555	CD, 1000pF, ±20%, AC250V
⚠C815	24092553	CD, 470pF, ±20%, AC250V
C816	24669221	EL, 220μF, ±20%, 50V

Location No.	Part No.	Description
C817	24092341	CD, 470pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22μF, ±20%, 100V
C820	24092343	CD, 680pF, ±10%, 2kV
C821	24214471	CD, 470pF, ±10%, 500V
C822	24538474	PF, 0.47μF
C829	24590182	PF, 1800pF
C831	24794470	EL, 47μF, ±20%, 16V
C832	24794470	EL, 47μF, ±20%, 16V
C833	24669100	EL, 10μF, ±20%, 50V
C834	24797100	EL, 10μF, ±20%, 50V
C835	24794470	EL, 47μF, ±20%, 16V
C836	24794470	EL, 47μF, ±20%, 16V
C841	24669100	EL, 10μF, ±20%, 50V
C842	24669100	EL, 10μF, ±20%, 50V
C843	24538104	PF, 0.1μF
C846	24538104	PF, 0.1μF
C847	24538474	PF, 0.47μF
C871	24214471	CD, 470pF, ±10%, 500V
C872	24669221	EL, 220μF, ±20%, 50V
C876	24666101	EL, 100μF, ±20%, 16V
C884	24086916	EL, 330μF, ±20%, 160V
⚠C885	24214471	CD, 470pF, ±10%, 500V
C887	24214471	CD, 470pF, ±10%, 500V
C889	24668332	EL, 3300μF, ±20%, 35V
⚠C891	24667332	EL, 3300μF, ±20%, 25V
C892	24668222	EL, 2200μF, ±20%, 35V
C893	24092337	CD, 220pF, ±10%, 2kV
C895	24669470	EL, 47μF, ±20%, 50V
C896	24214471	CD, 470pF, ±10%, 500V
C897	24667332	EL, 3300μF, ±20%, 25V
C898	24538224	PF, 0.22μF
C899	24214471	CD, 470pF, ±10%, 500V
C902	24092353	CD, 4700pF, ±10%, 2kV
C904	24436471	CD, 470pF
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679220	EL, 22μF, ±20%, 250V
C910	24797478	EL, 0.47μF, ±20%, 50V
C911	24203100	EL, 10μF, ±20%, 16V
C912	24794102	EL, 1000μF, ±20%, 16V
C913	24763102	EL, 1000μF, ±20%, 16V
C914	24212103	CD, 0.01μF, ±10%
C915	24092398	CD, 0.1μF, +80%,–20%
C920	24591104	PF, 0.1μF
C921	24591104	PF, 0.1μF
C930	24214101	CD, 100pF, ±10%, 500V
C931	24214101	CD, 100pF, ±10%, 500V
C940	24436390	CD, 39pF
C4031	24591562	PF, 5600pF
C4041	24797229	EL, 2.2μF, ±20%, 50V
C4301	24797010	EL, 1μF, ±20%, 50V
C4303	24591433	PF, 0.043μF
C4304	24591153	PF, 0.015μF
C4305	24794101	EL, 100μF, ±20%, 16V
C4306	24232103	CD, 0.01μF, +80%, –20%
C4307	24232103	CD, 0.01μF, +80%, –20%
C4311	24794471	EL, 470μF, ±20%, 16V
C4372	24617915	EL, 1μF, ±10%, 50V
C4373	24539474	PF, 0.47μF
C4375	24591203	PF, 0.02μF
C4377	24590102	PF, 1000pF
C4378	24617787	EL, 470μF, ±20%, 16V
C4379	24794101	EL, 100μF, ±20%, 16V

Location No.	Part No.	Description
C4380	24212102	CD, 1000pF, ±10%
C4381	24797478	EL, 0.47μF, ±20%, 50V
C4382	24539684	PF, 0.68μF
C4401	24232103	CD, 0.01μF, +80%, –20%
C4402	24232103	CD, 0.01μF, +80%, –20%
C4403	24501561	PF, 560pF
C4404	24501132	PF, 1300pF
C4405	24797479	EL, 4.7μF, ±20%, 50V
C4406	24232103	CD, 0.01μF, +80%, –20%
C4408	24766229	EL, 2.2μF, ±20%, 50V
C4412	24501132	PF, 1300pF
C4413	24501102	PF, 1000pF
C4414	24232103	CD, 0.01μF, +80%, –20%
C4415	24567474	PF, 0.47μF
C4416	24501161	PF, 160pF
C4417	24590332	PF, 3300pF
C4421	24353330	CD, 33pF
C4466	24820472	PF, 4700pF, 630V
C4490	24082646	PF, 0.24μF, 400V
C4491	24082646	PF, 0.24μF, 400V
CA13	24474101	CD, 100pF, ±10%
CA30	24474101	CD, 100pF, ±10%
CA33	24232103	CD, 0.01μF, +80%, –20%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, –20%
CA44	24232103	CD, 0.01μF, +80%, –20%
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, –20%
CA101	24232103	CD, 0.01μF, +80%, –20%
CA102	24232103	CD, 0.01μF, +80%, –20%
CA103	24436330	CD, 33pF
CA104	24436330	CD, 33pF
CA105	24232103	CD, 0.01μF, +80%, –20%
CA106	24794100	EL, 10μF, ±20%, 16V
CA107	24232103	CD, 0.01μF, +80%, –20%
CB01	24794470	EL, 47μF, ±20%, 16V
CB90	24232103	CD, 0.01μF, +80%, –20%
CC10	24781101	Chip, 100pF, SL
CC20	24781102	Chip, 1000pF, SL
CC21	24781470	Chip, 47pF, SL
CC22	24781470	Chip, 47pF, SL
CC37	24212103	CD, 0.01μF, ±10%
CD01	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD02	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD03	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD04	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD05	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD06	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD07	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD08	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD09	24781470	Chip, 47pF, SL
CD10	24781470	Chip, 47pF, SL
CD11	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD12	24814473	Chip, 0.047μF, +80%,–20%
CD13	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD14	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD15	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD16	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD17	24781470	Chip, 47pF, SL
CD18	24781470	Chip, 47pF, SL
CD20	24815222	Chip, 2200pF, ±10%
CD21	24203100	EL, 10μF, ±20%, 16V
CD22	24203100	EL, 10μF, ±20%, 16V
CD23	24203100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CD24	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD25	24815222	Chip, 2200pF, ±10%
CD26	24203100	EL, 10μF, ±20%, 16V
CD27	24203100	EL, 10μF, ±20%, 16V
CD28	24665471	EL, 470μF, ±20%, 10V
CD29	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD30	24203100	EL, 10μF, ±20%, 16V
CD31	24203220	EL, 22μF, ±20%, 16V
CD32	24206010	EL, 1μF, 50V
CD33	24092178	Chip, 0.1μF, ±10%, B
CD34	24092178	Chip, 0.1μF, ±10%, B
CD35	24092178	Chip, 0.1μF, ±10%, B
CD36	24781102	Chip, 1000pF, SL
CD37	24203101	EL, 100μF, ±20%, 16V
CD38	24206010	EL, 1μF, 50V
CD39	24206010	EL, 1μF, 50V
CD40	24206010	EL, 1μF, 50V
CD41	24814103	Chip, 0.01μF, +80%, –20%
CD42	24203101	EL, 100μF, ±20%, 16V
CD43	24206010	EL, 1μF, 50V
CD44	24815273	Chip, 0.027μF, ±10%
CD45	24815822	Chip, 8200pF, ±10%
CD46	24815273	Chip, 0.027μF, ±10%
CD47	24206010	EL, 1μF, 50V
CD48	24815273	Chip, 0.027μF, ±10%
CD49	24815822	Chip, 8200pF, ±10%
CD50	24815822	Chip, 8200pF, ±10%
CD51	24203100	EL, 10μF, ±20%, 16V
CD52	24203100	EL, 10μF, ±20%, 16V
CD53	24203100	EL, 10μF, ±20%, 16V
CD54	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD55	24815222	Chip, 2200pF, ±10%
CD56	24814103	Chip, 0.01μF, +80%, –20%
CD57	24814103	Chip, 0.01μF, +80%, –20%
CD58	24202101	EL, 100μF, 10V
CD59	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD60	24815222	Chip, 2200pF, ±10%
CD61	24203100	EL, 10μF, ±20%, 16V
CD62	24203100	EL, 10μF, ±20%, 16V
CD63	24203100	EL, 10μF, ±20%, 16V
CD64	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD65	24815222	Chip, 2200pF, ±10%
CD66	24203100	EL, 10μF, ±20%, 16V
CD67	24203100	EL, 10μF, ±20%, 16V
CD68	24202101	EL, 100μF, 10V
CD69	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD70	24815222	Chip, 2200pF, ±10%
CD72	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD73	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD74	24665471	EL, 470μF, ±20%, 10V
CD75	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD76	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD77	24665471	EL, 470μF, ±20%, 10V
CD78	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD79	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD80	24665471	EL, 470μF, ±20%, 10V
CD81	24202221	EL, 220μF, ±20%, 10V
CD82	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD83	24665471	EL, 470μF, ±20%, 10V
CD84	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD85	24665471	EL, 470μF, ±20%, 10V
CD86	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD87	24567334	PF, 0.33μF
CD88	24794100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CD88	24538104	PF, 0.1μF
CD89	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD91	24814103	Chip, 0.01μF, +80%, –20%
CD92	24203220	EL, 22μF, ±20%, 16V
CD93	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD94	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD101	24814103	Chip, 0.01μF, +80%, –20%
CD102	24814103	Chip, 0.01μF, +80%, –20%
CD103	24781330	Chip, 33pF, SL
CD104	24781330	Chip, 33pF, SL
CD105	24814103	Chip, 0.01μF, +80%, –20%
CD106	24203100	EL, 10μF, ±20%, 16V
CD108	24287103	Chip, 0.01μF, +80%, –20%
CD203	24815123	Chip, 0.012μF, ±10%
CD204	24815123	Chip, 0.012μF, ±10%
CD205	24085988	EL, 1μF, ±20%, 50V, NP
CD206	24085988	EL, 1μF, ±20%, 50V, NP
CD207	24815822	Chip, 8200pF, ±10%
CD208	24815822	Chip, 8200pF, ±10%
CD209	24815473	Chip, 0.047μF, ±10%
CD210	24203100	EL, 10μF, ±20%, 16V
CD211	24814103	Chip, 0.01μF, +80%, –20%
CD212	24814103	Chip, 0.01μF, +80%, –20%
CD213	24814103	Chip, 0.01μF, +80%, –20%
CD214	24203101	EL, 100μF, ±20%, 16V
CD215	24203470	EL, 47μF, ±20%, 16V
CF03	24567104	PF, 0.1μF
CF04	24766101	PF, 0.1μF
CF05	24766101	PF, 0.1μF
CF06	24774220	Chip, 22pF, CH
CF07	24774220	Chip, 22pF, CH
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF
CF10	24206100	EL, 10μF, 50V
CF11	24567104	PF, 0.1μF
CF12	24814103	Chip, 0.01μF, +80%, –20%
CF14	24814103	Chip, 0.01μF, +80%, –20%
CF17	24794101	EL, 100μF, ±20%, 16V
CF18	24794101	EL, 100μF, ±20%, 16V
CF19	24814103	Chip, 0.01μF, +80%, –20%
CK01	24436101	CD, 100pF
CK02	24436101	CD, 100pF
CK03	24436330	CD, 33pF
CK04	24436101	CD, 100pF
CK05	24436101	CD, 100pF
CK06	24436471	CD, 470pF
CK07	24797479	EL, 4.7μF, ±20%, 50V
CK08	24436330	CD, 33pF
CK09	24436330	CD, 33pF
CK10	24436330	CD, 33pF
CK11	24436330	CD, 33pF
CK12	24436330	CD, 33pF
CK13	24436330	CD, 33pF
CK14	24212103	CD, 0.01μF, ±10%
CK15	24436330	CD, 33pF
CK16	24436101	CD, 100pF
CK17	24436330	CD, 33pF
CK18	24436330	CD, 33pF
CK19	24212103	CD, 0.01μF, ±10%
CK20	24794100	EL, 10μF, ±20%, 16V
CK21	24212103	CD, 0.01μF, ±10%
CK26	24212103	CD, 0.01μF, ±10%
CK30	24794100	EL, 10μF, ±20%, 16V
CK31	24797010	EL, 1μF, ±20%, 50V

Location No.	Part No.	Description
CK32	24797010	EL, 1μF, ±20%, 50V
CK50	24795470	EL, 47μF, ±20%, 25V
CK51	24567104	PF, 0.1μF
CK52	24567104	PF, 0.1μF
CK53	24085958	EL, 1.0μF, ±20%, 50V, NP
CK54	24436561	CD, 560pF
CK55	24797010	EL, 1μF, ±20%, 50V
CK56	24232103	CD, 0.01μF, +80%, –20%
CK57	24436681	CD, 680pF
CK58	24436331	CD, 330pF
CK60	24567104	PF, 0.1μF
CK190	24794100	EL, 10μF, ±20%, 16V
CK191	24794100	EL, 10μF, ±20%, 16V
CQ01	24781102	Chip, 1000pF, SL
CQ02	24781820	Chip, 82pF, SL
CQ03	24781102	Chip, 1000pF, SL
CQ04	24203100	EL, 10μF, ±20%, 16V
CQ05	24591563	PF, 0.056μF
CQ07	24591203	PF, 0.02μF
CQ08	24567683	PF, 0.068μF
CQ09	24206229	EL, 2.2μF, 50V
CQ10	24591223	PF, 0.022μF
CQ11	24206229	EL, 2.2μF, 50V
CQ12	24781820	Chip, 82pF, SL
CQ13	24669010	EL, 1μF, ±20%, 50V
CQ14	24669010	EL, 1μF, ±20%, 50V
CQ15	24763101	EL, 100μF, ±20%, 16V
CQ16	24814103	Chip, 0.01μF, +80%, –20%
CQ17	24774150	Chip, 15pF, CH
CQ18	24781820	Chip, 82pF, SL
CQ19	24590103	PF, 0.01μF
CQ20	24567104	PF, 0.1μF
CQ21	24794470	EL, 47μF, ±20%, 16V
CQ22	24814103	Chip, 0.01μF, +80%, –20%
CQ23	24567104	PF, 0.1μF
CQ24	24567104	PF, 0.1μF
CQ25	24797100	EL, 10μF, ±20%, 50V
CQ26	24567104	PF, 0.1μF
CQ27	24567104	PF, 0.1μF
CQ28	24797478	EL, 0.47μF, ±20%, 50V
CQ29	24794101	EL, 100μF, ±20%, 16V
CQ30	24814103	Chip, 0.01μF, +80%, –20%
CQ31	24797478	EL, 0.47μF, ±20%, 50V
CQ32	24590103	PF, 0.01μF
CQ33	24567104	PF, 0.1μF
CQ34	24567104	PF, 0.1μF
CQ35	24206478	EL, 0.47μF, 50V
CQ36	24206478	EL, 0.47μF, 50V
CQ37	24669010	EL, 1μF, ±20%, 50V
CQ38	24669010	EL, 1μF, ±20%, 50V
CQ39	24669010	EL, 1μF, ±20%, 50V
CQ40	24781820	Chip, 82pF, SL
CQ41	24781090	Chip, 9pF, SL
CQ42	24781090	Chip, 9pF, SL
CQ43	24781090	Chip, 9pF, SL
CQ45	24781102	Chip, 1000pF, SL
CQ46	24781102	Chip, 1000pF, SL
CR01	24567104	PF, 0.1μF
CR02	24567104	PF, 0.1μF
CR03	24567104	PF, 0.1μF
CR04	24567104	PF, 0.1μF
CR05	24567104	PF, 0.1μF
CR06	24567104	PF, 0.1μF
CR07	24814103	Chip, 0.01μF, +80%, –20%

Location No.	Part No.	Description
CR08	24794100	EL, 10μF, ±20%, 16V
CR09	24814103	Chip, 0.01μF, +80%, –20%
CR12	24567104	PF, 0.1μF
CR12	24567104	PF, 0.1μF
CR13	24567104	PF, 0.1μF
CR14	24567104	PF, 0.1μF
CS01	24085944	EL, 2.2μF, ±20%, 50V, NP
CS02	24085944	EL, 2.2μF, ±20%, 50V, NP
CS03	24206229	EL, 2.2μF, 50V
CS04	24206229	EL, 2.2μF, 50V
CS05	24206229	EL, 2.2μF, 50V
CS06	24206229	EL, 2.2μF, 50V
CS07	24206229	EL, 2.2μF, 50V
CS08	24206229	EL, 2.2μF, 50V
CS09	24206010	EL, 1μF, 50V
CS12	24474102	CD, 1000pF, ±10%
CS13	24474102	CD, 1000pF, ±10%
CS14	24206100	EL, 10μF, 50V
CS15	24206100	EL, 10μF, 50V
CS17	24203100	EL, 10μF, ±20%, 16V
CS18	24203100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, 50V
CS22	24666100	EL, 10μF, ±20%, 16V
CS23	24666100	EL, 10μF, ±20%, 16V
CV01	24590103	PF, 0.01μF
CV02	24085970	EL, 10μF, ±20%, 16V, NP
CV03	24666100	EL, 10μF, ±20%, 16V
CV04	24666100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, –20%
CV06	24666100	EL, 10μF, ±20%, 16V
CV07	24232103	CD, 0.01μF, +80%, –20%
CV08	24763102	EL, 1000μF, ±20%, 16V
CV09	24666100	EL, 10μF, ±20%, 16V
CV10	24085970	EL, 10μF, ±20%, 16V, NP
CV11	24436331	CD, 330pF
CV12	24092398	CD, 0.1μF, +80%, –20%
CV13	24232103	CD, 0.01μF, +80%, –20%
CV14	24474102	CD, 1000pF, ±10%
CV15	24474102	CD, 1000pF, ±10%
CV16	24474102	CD, 1000pF, ±10%
CV17	24474102	CD, 1000pF, ±10%
CV18	24474102	CD, 1000pF, ±10%
CV19	24474102	CD, 1000pF, ±10%
CV20	24353330	CD, 33pF
CV23	24666101	EL, 100μF, ±20%, 16V
CV24	24232103	CD, 0.01μF, +80%, –20%
CV25	24763471	EL, 470μF, ±20%, 16V
CV34	24474102	CD, 1000pF, ±10%
CV35	24212102	CD, 1000pF, ±10%
CV37	24474102	CD, 1000pF, ±10%
CV39	24666101	EL, 100μF, ±20%, 16V
CV40	24232103	CD, 0.01μF, +80%, –20%
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24666101	EL, 100μF, ±20%, 16V
CV66	24666101	EL, 100μF, ±20%, 16V
CV67	24763471	EL, 470μF, ±20%, 16V
CV68	24763471	EL, 470μF, ±20%, 16V
CV80	24232103	CD, 0.01μF, +80%, –20%
CX201	24774100	Chip, 10pF, ±0.5pF, CH
CX202	24774101	Chip, 100pF, ±10%, CH
CX203	24774560	Chip, 56pF, CH
CX204	24794221	EL, 220μF, ±20%, 16V

Location No.	Part No.	Description
CX205	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX207	24774101	Chip, 100pF, ±10%, CH
CX208	24774271	Chip, 270pF, CH
CX209	24092178	Chip, 0.1μF, ±10%, B
CX210	24774101	Chip, 100pF, ±10%, CH
CX211	24774271	Chip, 270pF, CH
CX212	24793471	EL, 470μF, ±20%, 10V
CX213	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX214	24814103	Chip, 0.01μF, +80%, −20%
CX215	24206479	EL, 4.7μF, 50V
CX216	24814103	Chip, 0.01μF, +80%, −20%
CX217	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX218	24206479	EL, 4.7μF, 50V
CX219	24092441	Chip, 1μF, +80%, −20%, 16V
CX220	24206479	EL, 4.7μF, 50V
CX221	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX222	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX223	24815473	Chip, 0.047μF, ±10%
CX224	24793471	EL, 470μF, ±20%, 10V
CX225	24092178	Chip, 0.1μF, ±10%, B
CX229	24092178	Chip, 0.1μF, ±10%, B
CX230	24092178	Chip, 0.1μF, ±10%, B
CX231	24092178	Chip, 0.1μF, ±10%, B
CX232	24092178	Chip, 0.1μF, ±10%, B
CX233	24092178	Chip, 0.1μF, ±10%, B
CX235	24202221	EL, 220μF, ±20%, 10V
CX236	24092178	Chip, 0.1μF, ±10%, B
CX237	24092178	Chip, 0.1μF, ±10%, B
CX238	24092178	Chip, 0.1μF, ±10%, B
CX239	24203100	EL, 10μF, ±20%, 16V
CX240	24774560	Chip, 56pF, CH
CX241	24774030	Chip, 3pF, CH
CX242	24203100	EL, 10μF, ±20%, 16V
CX243	24774560	Chip, 56pF, CH
CX244	24781100	Chip, 10pF, ±0.5%, SL
CX245	24203100	EL, 10μF, ±20%, 16V
CX246	24774560	Chip, 56pF, CH
CX247	24774100	Chip, 10pF, ±0.5pF, CH
CX248	24092178	Chip, 0.1μF, ±10%, B
CX249	24794221	EL, 220μF, ±20%, 16V
CX252	24092178	Chip, 0.1μF, ±10%, B
CX253	24092178	Chip, 0.1μF, ±10%, B
CX254	24774120	Chip, 12pF, CH
CX255	24774120	Chip, 12pF, CH
CX256	24092178	Chip, 0.1μF, ±10%, B
CX257	24092178	Chip, 0.1μF, ±10%, B
CX258	24092178	Chip, 0.1μF, ±10%, B
CX259	24092178	Chip, 0.1μF, ±10%, B
CX260	24092178	Chip, 0.1μF, ±10%, B
CX261	24206010	EL, 1μF, 50V
CX262	24206100	EL, 10μF, 50V
CX263	24092178	Chip, 0.1μF, ±10%, B
CX265	24206010	EL, 1μF, 50V
CX266	24203100	EL, 10μF, ±20%, 16V
CX267	24815473	Chip, 0.047μF, ±10%
CX269	24206010	EL, 1μF, 50V
CX270	24203100	EL, 10μF, ±20%, 16V
CX271	24815473	Chip, 0.047μF, ±10%
CX272	24774470	Chip, 47pF, CH
CX273	24774470	Chip, 47pF, CH
CX277	24781060	Chip, 6pF, SL
CX278	24781330	Chip, 33pF, SL
CX279	24781330	Chip, 33pF, SL
CX280	24092178	Chip, 0.1μF, ±10%, B

Location No.	Part No.	Description
CX301	24781220	Chip, 22pF, SL
CX302	24781820	Chip, 82pF, SL
CX303	24781820	Chip, 82pF, SL
CX304	24781220	Chip, 22pF, SL
CX305	24781220	Chip, 22pF, SL
CX306	24781220	Chip, 22pF, SL
CX307	24794221	EL, 220μF, ±20%, 16V
CX308	24092178	Chip, 0.1μF, ±10%, B
CX309	24793471	EL, 470μF, ±20%, 10V
CX310	24092178	Chip, 0.1μF, ±10%, B
CX319	24203470	EL, 47μF, ±20%, 16V
CX320	24092178	Chip, 0.1μF, ±10%, B
CX323	24092178	Chip, 0.1μF, ±10%, B
CX326	24781330	Chip, 33pF, SL
CX329	24206228	EL, 0.22μF, 50V
CX400	24781221	Chip, 220pF, SL
CX401	24781330	Chip, 33pF, SL
CX402	24781330	Chip, 33pF, SL
CX403	24781221	Chip, 220pF, SL
CX404	24781221	Chip, 220pF, SL
CX405	24781221	Chip, 220pF, SL
CX406	24781221	Chip, 220pF, SL
CX407	24781331	Chip, 330pF, SL
CX408	24781221	Chip, 220pF, SL
CX415	24781221	Chip, 220pF, SL
CX511	24202470	EL, 47μF, ±20%, 10V
CX512	24092178	Chip, 0.1μF, ±10%, B
CX514	24815472	Chip, 4700pF, ±10%, B
CX601	24092178	Chip, 0.1μF, ±10%, B
CX602	24092178	Chip, 0.1μF, ±10%, B
CX603	24092178	Chip, 0.1μF, ±10%, B
CX604	24092178	Chip, 0.1μF, ±10%, B
CX605	24762102	EL, 1000μF, ±20%, 10V
CX611	24092178	Chip, 0.1μF, ±10%, B
CX612	24203101	EL, 100μF, ±20%, 16V
CX613	24092178	Chip, 0.1μF, ±10%, B
CX621	24092178	Chip, 0.1μF, ±10%, B
CX622	24092178	Chip, 0.1μF, ±10%, B
CX623	24092178	Chip, 0.1μF, ±10%, B
CX624	24092178	Chip, 0.1μF, ±10%, B
CX641	24092178	Chip, 0.1μF, ±10%, B
CX642	24092178	Chip, 0.1μF, ±10%, B
CX643	24092178	Chip, 0.1μF, ±10%, B
CX644	24092178	Chip, 0.1μF, ±10%, B
CX652	24774221	Chip, 220pF, CH
CX701	24781271	Chip, 270pF, SL
CX711	24092178	Chip, 0.1μF, ±10%, B
CX712	24781221	Chip, 220pF, SL
CX713	24781221	Chip, 220pF, SL
CX721	24092178	Chip, 0.1μF, ±10%, B
CX731	24092178	Chip, 0.1μF, ±10%, B
CX741	24781221	Chip, 220pF, SL
CZ08	24203100	EL, 10μF, ±20%, 16V
CZ09	24436220	CD, 22pF
CZ10	24473180	CD, 18pF
CZ11	24473100	CD, 10pF
CZ12	24232103	CD, 0.01μF, +80%, −20%
CZ13	24092398	CD, 0.1μF, +80%, −20%
CZ14	24617816	EL, 10μF, ±20%, 50V
CZ15	24232103	CD, 0.01μF, +80%, −20%
CZ16	24206478	EL, 0.47μF, 50V
CZ17	24232103	CD, 0.01μF, +80%, −20%
CZ19	24436181	CD, 180pF
CZ20	24538103	PF, 0.01μF

Location No.	Part No.	Description
CZ21	24436390	CD, 39pF
CZ22	24617816	EL, 10μF, ±20%, 50V
CZ23	24092398	CD, 0.1μF, +80%,–20%
CZ24	24092398	CD, 0.1μF, +80%,–20%
CZ25	24203101	EL, 100μF, ±20%, 16V
CZ26	24232103	CD, 0.01μF, +80%, –20%
CZ28	24232103	CD, 0.01μF, +80%, –20%
CZ29	24092398	CD, 0.1μF, +80%,–20%
CZ30	24617816	EL, 10μF, ±20%, 50V
CZ32	24436120	CD, 12pF
CZ33	24436120	CD, 12pF
CZ34	24473120	CD, 12pF
CZ35	24473120	CD, 12pF
CZ37	24092398	CD, 0.1μF, +80%,–20%
CZ38	24092398	CD, 0.1μF, +80%,–20%
CZ45	24436100	CD, 10pF, ±0.25pF
CZ48	24203470	EL, 47μF, ±20%, 16V
RESISTORS		
R101	24382223	OMF, 22k ohm, 1W
R102	24366104	CF, 100k ohm
R103	24366333	CF, 33k ohm
R201	24366101	CF, 100 ohm
R201	24872681	Chip, 680 ohm, 1/16W
R202	24872821	Chip, 820 ohm, 1/16W
R204	24872104	Chip, 100k ohm, 1/16W
R205	24872101	Chip, 100 ohm, 1/16W
R206	24872222	Chip, 2200 ohm, 1/16W
R207	24872101	Chip, 100 ohm, 1/16W
R208	24872101	Chip, 100 ohm, 1/16W
R208	24366103	CF, 10k ohm
R209	24872101	Chip, 100 ohm, 1/16W
R209	24366103	CF, 10k ohm
R211	24366563	CF, 56k ohm
R212	24366472	CF, 4700 ohm
R213	24366472	CF, 4700 ohm
R214	24366222	CF, 2200 ohm
R215	24872102	Chip, 1k ohm, 1/16W
R216	24872103	Chip, 10k ohm, 1/16W
R217	24366332	CF, 3300 ohm
R218	24366513	CF, 51k ohm
R220	24872102	Chip, 1k ohm, 1/16W
R221	24872102	Chip, 1k ohm, 1/16W
R223	24872102	Chip, 1k ohm, 1/16W
R223	24366102	CF, 1k ohm
R224	24366271	CF, 270 ohm
R227	24367223	CF, 22k ohm, ±2%
R229	24872472	Chip, 4700 ohm, 1/16W
R231	24366100	CF, 10 ohm
R232	24366103	CF, 10k ohm
R233	24366104	CF, 100k ohm
R234	24366271	CF, 270 ohm
R235	24872472	Chip, 4700 ohm, 1/16W
R235	24366101	CF, 100 ohm
R236	24872102	Chip, 1k ohm, 1/16W
R236	24366561	CF, 560 ohm
R237	24872103	Chip, 10k ohm, 1/16W
R273	24366473	CF, 47k ohm
R274	24366102	CF, 1k ohm
R275	24366101	CF, 100 ohm
R276	24366683	CF, 68k ohm
R277	24366103	CF, 10k ohm
R299	24366103	CF, 10k ohm
R303	24321109	MF, 1 ohm, 1/2W

Location No.	Part No.	Description
R304	24366153	CF, 15k ohm
R305	24322159	OMF, 1.5 ohm, 1W
R306	24366222	CF, 2200 ohm
R307	24366621	CF, 620 ohm
R308	24366472	CF, 4700 ohm
R309	24366303	CF, 30k ohm
R310	24366102	CF, 1k ohm
R311	24366472	CF, 4700 ohm
R312	24366103	CF, 10k ohm
R313	24366243	CF, 24k ohm
R317	24366472	CF, 4700 ohm
R321	24366183	CF, 18k ohm
R322	24366102	CF, 1k ohm
R323	24366103	CF, 10k ohm
R324	24366681	CF, 680 ohm
R325	24366103	CF, 10k ohm
R325	24366103	CF, 10k ohm
R327	24339159	MF, 1.5 ohm, 2W
R328	24366471	CF, 470 ohm
R330	24366123	CF, 12k ohm
R336	24383391	OMF, 390 ohm, 2W
R344	24382821	OMF, 820 ohm, 1W
R360	24366103	CF, 10k ohm
R370	24322159	OMF, 1.5 ohm, 1W
R371	24366682	CF, 6800 ohm
R372	24366202	CF, 2k ohm
R373	24366182	CF, 1800 ohm
R374	24366153	CF, 15k ohm
R380	24366103	CF, 10k ohm
R381	24366103	CF, 10k ohm
R382	24366302	CF, 3k ohm
R383	24366272	CF, 2700 ohm
R384	24366102	CF, 1k ohm
R387	24382121	OMF, 120 ohm, 1W
R388	24382121	OMF, 120 ohm, 1W
R389	24383121	OMF, 120 ohm, 2W
R397	24382121	OMF, 120 ohm, 1W
R398	24382121	OMF, 120 ohm, 1W
R399	24366684	CF, 680k ohm
R401	24872391	Chip, 390 ohm, 1/16W
R402	24366103	CF, 10k ohm
R403	24872392	Chip, 3900 ohm, 1/16W
R405	24553682	OMF, 6800 ohm, 1W
R407	24872103	Chip, 10k ohm, 1/16W
R411	24366560	CF, 56 ohm
R415	24553561	OMF, 560 ohm, 1W
R416	24381563	OMF, 56k ohm, 1/2W
R417	24510101	Cement, 100 ohm, 5W
R422	24366101	CF, 100 ohm
R424	24366152	CF, 1500 ohm
R425	24366182	CF, 1800 ohm
R426	24366202	CF, 2k ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552560	OMF, 56 ohm, 1/2W
R435	24366184	CF, 180k ohm
R436	24366101	CF, 100 ohm
R437	24366471	CF, 470 ohm
R438	24552102	OMF, 1k ohm, 1/2W
R441	24383561	OMF, 560 ohm, 2W
R443	24381150	OMF, 15 ohm, 1/2W
R451	24061546	VR, 100 ohm, 3W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24552182	OMF, 1800 ohm, 1/2W

Location No.	Part No.	Description
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366101	CF, 100 ohm
R466	24366562	CF, 5600 ohm
R467	24327224	MF, 220k ohm, ±1%, 1/4W
R468	24366163	CF, 16k ohm
R469	24531150	FR, 15 ohm, 1/2W
R470	24339568	OMF, 0.56 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R473	24366103	CF, 10k ohm
R474	24366473	CF, 47k ohm
R478	24381333	OMF, 33k ohm, 1/2W
R479	24531680	FR, 68 ohm, 1/2W
R481	24366392	CF, 3900 ohm
R482	24366183	CF, 18k ohm
R487	24366474	CF, 470k ohm
R488	24366154	CF, 150k ohm
R490	24366101	CF, 100 ohm
R491	24366101	CF, 100 ohm
R492	24366272	CF, 2700 ohm
R501	24872223	Chip, 22k ohm, 1/16W
R502	24872101	Chip, 100 ohm, 1/16W
R503	24872101	Chip, 100 ohm, 1/16W
R505	24872102	Chip, 1k ohm, 1/16W
R506	24872103	Chip, 10k ohm, 1/16W
R508	24872102	Chip, 1k ohm, 1/16W
R509	24872102	Chip, 1k ohm, 1/16W
R510	24872102	Chip, 1k ohm, 1/16W
R511	24872101	Chip, 100 ohm, 1/16W
R512	24872101	Chip, 100 ohm, 1/16W
R513	24366472	CF, 4700 ohm
R514	24366472	CF, 4700 ohm
R515	24366472	CF, 4700 ohm
R516	24872101	Chip, 100 ohm, 1/16W
R517	24872101	Chip, 100 ohm, 1/16W
R518	24872472	Chip, 4700 ohm, 1/16W
R519	24872101	Chip, 100 ohm, 1/16W
R520	24872103	Chip, 10k ohm, 1/16W
R521	24872223	Chip, 22k ohm, 1/16W
R522	24872473	Chip, 47k ohm, 1/16W
R530	24872223	Chip, 22k ohm, 1/16W
R531	24872103	Chip, 10k ohm, 1/16W
R609	24366563	CF, 56k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R613	24366224	CF, 220k ohm
R630	24366222	CF, 2200 ohm
R631	24366562	CF, 5600 ohm
R632	24366223	CF, 22k ohm
R633	24366223	CF, 22k ohm
R634	24366229	CF, 2.2 ohm
R640	24366222	CF, 2200 ohm
R641	24366392	CF, 3900 ohm
R642	24366183	CF, 18k ohm
R643	24366562	CF, 5600 ohm
R644	24366473	CF, 47k ohm
R645	24366229	CF, 2.2 ohm
R646	24366223	CF, 22k ohm
R648	24366229	CF, 2.2 ohm
R661	24552221	OMF, 220 ohm, 1/2W
R661	24510159	Cement, 1.5 ohm, 5W
R662	24552221	OMF, 220 ohm, 1/2W
R670	24366153	CF, 15k ohm

Location No.	Part No.	Description
R671	24366392	CF, 3900 ohm
R671	24366102	CF, 1k ohm
R672	24366102	CF, 1k ohm
R672	24366153	CF, 15k ohm
R673	24366102	CF, 1k ohm
R673	24366392	CF, 3900 ohm
R674	24366222	CF, 2200 ohm
R675	24366122	CF, 1200 ohm
R675	24366102	CF, 1k ohm
R676	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R678	24366223	CF, 22k ohm
R679	24366223	CF, 22k ohm
R680	24366223	CF, 22k ohm
R680	24366473	CF, 47k ohm
R681	24366223	CF, 22k ohm
R682	24366104	CF, 100k ohm
R683	24366273	CF, 27k ohm
R684	24366229	CF, 2.2 ohm
R685	24366229	CF, 2.2 ohm
R686	24366229	CF, 2.2 ohm
R687	24366222	CF, 2200 ohm
R688	24366222	CF, 2200 ohm
R689	24366104	CF, 100k ohm
R690	24366681	CF, 680 ohm
R691	24366681	CF, 680 ohm
R692	24366681	CF, 680 ohm
R693	24366681	CF, 680 ohm
R694	24366563	CF, 56k ohm
R695	24366153	CF, 15k ohm
R702	24552221	OMF, 220 ohm, 1/2W
R712	24366101	CF, 100 ohm
R715	24366223	CF, 22k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366151	CF, 150 ohm
R724	24366680	CF, 68 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24553331	OMF, 330 ohm, 1W
R732	24366220	CF, 22 ohm
R733	24366683	CF, 68k ohm
R734	24366220	CF, 22 ohm
R735	24366683	CF, 68k ohm
R736	24366560	CF, 56 ohm
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24366560	CF, 56 ohm
R741	24366279	CF, 2.7 ohm
R742	24366279	CF, 2.7 ohm
R743	24554101	OMF, 100 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
⚠R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R802	24321568	MF, 0.56 ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24552101	OMF, 100 ohm, 1/2W
R806	24552392	OMF, 3900 ohm, 1/2W
R808	24019340	PTC Thermistor, 18 ohm
R810	24007863	Cement, 3.3 ohm, 15W

Location No.	Part No.	Description
R811	24568271	Cement, 270 ohm, 7W
R814	24366122	CF, 1200 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24323689	MF, 6.8 ohm, 2W
R818	24019460	MF, 0.1 ohm, 2W
R819	24321209	MF, 2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24366272	CF, 2700 ohm
R824	24569101	Cement, 100 ohm, 10W
R825	24569100	Cement, 10 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R829	24321109	MF, 1 ohm, 1/2W
R831	24366471	CF, 470 ohm
R832	24366472	CF, 4700 ohm
R833	24366222	CF, 2200 ohm
R834	24366471	CF, 470 ohm
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W
R846	24366561	CF, 560 ohm
R847	24366472	CF, 4700 ohm
R849	24366471	CF, 470 ohm
R890	24553333	OMF, 33k ohm, 1W
⚠R899	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376821	CF, 820 ohm, 1/2W
R902	24376821	CF, 820 ohm, 1/2W
R903	24376821	CF, 820 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R906	24366102	CF, 1k ohm
R907	24366102	CF, 1k ohm
R908	24366102	CF, 1k ohm
R909	24366222	CF, 2200 ohm
R910	24552121	OMF, 120 ohm, 1/2W (32MW8DG)
R912	24366102	CF, 1k ohm
R914	24366101	CF, 100 ohm
R915	24366560	CF, 56 ohm
R916	24366470	CF, 47 ohm
R917	24366271	CF, 270 ohm
R918	24366100	CF, 10 ohm
R919	24366102	CF, 1k ohm
R920	24000880	FR, 5.1 ohm, 1W
R921	24366101	CF, 100 ohm
R922	24366560	CF, 56 ohm
R924	24366100	CF, 10 ohm
R925	24366271	CF, 270 ohm
R926	24366102	CF, 1k ohm
R928	24366101	CF, 100 ohm
R929	24366560	CF, 56 ohm
R930	24366100	CF, 10 ohm
R932	24366332	CF, 3300 ohm
R933	24366750	CF, 75 ohm
R934	24366391	CF, 390 ohm
R935	24366821	CF, 820 ohm
R936	24366750	CF, 75 ohm
R937	24366271	CF, 270 ohm
R939	24366680	CF, 68 ohm
R942	24366392	CF, 3900 ohm
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm
R945	24366470	CF, 47 ohm

Location No.	Part No.	Description
R946	24366470	CF, 47 ohm
R960	24383153	OMF, 15k ohm, 2W
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R966	24383153	OMF, 15k ohm, 2W
R967	24383153	OMF, 15k ohm, 2W
R968	24383153	OMF, 15k ohm, 2W
R969	24366101	CF, 100 ohm
R970	24366101	CF, 100 ohm
R971	24366101	CF, 100 ohm
R977	24366681	CF, 680 ohm
R980	24366471	CF, 470 ohm
R981	24366471	CF, 470 ohm
R982	24366682	CF, 6800 ohm
R983	24366222	CF, 2200 ohm
R984	24366821	CF, 820 ohm
R985	24366471	CF, 470 ohm
R986	24366681	CF, 680 ohm
R987	24366681	CF, 680 ohm
R988	24366472	CF, 4700 ohm
R989	24366822	CF, 8200 ohm
R990	24366222	CF, 2200 ohm
R991	24366681	CF, 680 ohm
R992	24366150	CF, 15 ohm
R4034	24366332	CF, 3300 ohm
R4301	24366222	CF, 2200 ohm
R4302	24366103	CF, 10k ohm
R4303	24019090	MF, 330k ohm, ±1%, 1/4W
R4305	24366332	CF, 3300 ohm
R4306	24366393	CF, 39k ohm
R4350	24000249	MF, 47k ohm, ±1%, 1/4W
R4371	24366684	CF, 680k ohm
R4372	24366153	CF, 15k ohm
R4373	24366101	CF, 100 ohm
R4374	24366101	CF, 100 ohm
R4375	24366101	CF, 100 ohm
R4378	24366474	CF, 470k ohm
R4379	24366334	CF, 330k ohm
R4380	24366114	CF, 110k ohm
R4381	24366822	CF, 8200 ohm
R4382	24366153	CF, 15k ohm
R4384	24552222	OMF, 2200 ohm, 1/2W
R4385	24367301	CF, 300 ohm, ±2% (32MW8DG)
R4401	24366103	CF, 10k ohm
R4402	24366222	CF, 2200 ohm
R4403	24000639	MF, 22k ohm, ±1%, 1/4W
R4404	24000364	MF, 1800 ohm, ±1%, 1/4W
R4405	24000247	MF, 39k ohm, ±1%, 1/4W
R4406	24000220	MF, 390 ohm, ±1%, 1/4W
R4408	24000637	MF, 15k ohm, ±1%, 1/4W
R4409	24000361	MF, 1300 ohm, ±1%, 1/4W
R4410	24552470	OMF, 47 ohm, 1/2W
R4411	24366472	CF, 4700 ohm
R4412	24366103	CF, 10k ohm
R4413	24366132	CF, 1300 ohm
R4420	24000639	MF, 22k ohm, ±1%, 1/4W
R4421	24366103	CF, 10k ohm
R4422	24366473	CF, 47k ohm
R4423	24366223	CF, 22k ohm
R4450	24066878	VR, 2k ohm, 0.3W

Location No.	Part No.	Description
R4490	24382222	OMF, 2200 ohm, 1W
R4491	24366392	CF, 3900 ohm
R4492	24366103	CF, 10k ohm
R4493	24382104	OMF, 100k ohm, 1W
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366102	CF, 1k ohm
RA11	24366102	CF, 1k ohm
RA12	24366473	CF, 47k ohm
RA13	24366153	CF, 15k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA33	24366102	CF, 1k ohm
RA35	24366102	CF, 1k ohm
RA36	24366472	CF, 4700 ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA41	24366102	CF, 1k ohm
RA43	24366102	CF, 1k ohm
RA44	24366103	CF, 10k ohm
RA61	24366103	CF, 10k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA64	24366103	CF, 10k ohm
RA69	24366470	CF, 47 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA74	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366472	CF, 4700 ohm
RA78	24366472	CF, 4700 ohm
RA79	24366103	CF, 10k ohm
RA111	24366101	CF, 100 ohm
RA112	24366101	CF, 100 ohm
RA118	24366472	CF, 4700 ohm
RA119	24366472	CF, 4700 ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB41	24366182	CF, 1800 ohm
RB42	24366102	CF, 1k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm

Location No.	Part No.	Description
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RD01	24871101	Chip, 100 ohm, 1/8W
RD03	24872101	Chip, 100 ohm, 1/16W
RD04	24872101	Chip, 100 ohm, 1/16W
RD05	24872101	Chip, 100 ohm, 1/16W
RD06	24872101	Chip, 100 ohm, 1/16W
RD09	24872101	Chip, 100 ohm, 1/16W
RD10	24872101	Chip, 100 ohm, 1/16W
RD11	24872222	Chip, 2200 ohm, 1/16W
RD12	24872103	Chip, 10k ohm, 1/16W
RD13	24872101	Chip, 100 ohm, 1/16W
RD21	24872221	Chip, 220 ohm, 1/16W
RD23	24872221	Chip, 220 ohm, 1/16W
RD27	24872101	Chip, 100 ohm, 1/16W
RD28	24872101	Chip, 100 ohm, 1/16W
RD29	24872101	Chip, 100 ohm, 1/16W
RD30	24872223	Chip, 22k ohm, 1/16W
RD31	24872223	Chip, 22k ohm, 1/16W
RD32	24872223	Chip, 22k ohm, 1/16W
RD33	24872101	Chip, 100 ohm, 1/16W
RD34	24872102	Chip, 1k ohm, 1/16W
RD35	24872102	Chip, 1k ohm, 1/16W
RD36	24872101	Chip, 100 ohm, 1/16W
RD39	24872101	Chip, 100 ohm, 1/16W
RD40	24872101	Chip, 100 ohm, 1/16W
RD41	24872223	Chip, 22k ohm, 1/16W
RD42	24872101	Chip, 100 ohm, 1/16W
RD43	24872101	Chip, 100 ohm, 1/16W
RD44	24872101	Chip, 100 ohm, 1/16W
RD51	24872221	Chip, 220 ohm, 1/16W
RD53	24872221	Chip, 220 ohm, 1/16W
RD54	24872822	Chip, 8200 ohm, 1/16W
RD55	24872822	Chip, 8200 ohm, 1/16W
RD56	24872273	Chip, 27k ohm, 1/16W
RD57	24872273	Chip, 27k ohm, 1/16W
RD58	24872822	Chip, 8200 ohm, 1/16W
RD59	24872822	Chip, 8200 ohm, 1/16W
RD61	24872221	Chip, 220 ohm, 1/16W
RD63	24872221	Chip, 220 ohm, 1/16W
RD64	24872822	Chip, 8200 ohm, 1/16W
RD65	24872822	Chip, 8200 ohm, 1/16W
RD66	24872273	Chip, 27k ohm, 1/16W
RD67	24872273	Chip, 27k ohm, 1/16W
RD68	24872822	Chip, 8200 ohm, 1/16W
RD69	24872822	Chip, 8200 ohm, 1/16W
RD71	24366100	CF, 10 ohm
RD72	24871122	Chip, 1200 ohm, 1/8W
RD73	24871152	Chip, 1500 ohm, 1/8W
RD75	24366100	CF, 10 ohm
RD79	24366100	CF, 10 ohm
RD81	24321109	MF, 1 ohm, 1/2W
RD82	24871151	Chip, 150 ohm, 1/8W
RD85	24872151	Chip, 150 ohm, 1/16W
RD87	24872151	Chip, 150 ohm, 1/16W
RD88	24872222	Chip, 2200 ohm, 1/16W
RD89	24872151	Chip, 150 ohm, 1/16W
RD92	24872473	Chip, 47k ohm, 1/16W
RD93	24872222	Chip, 2200 ohm, 1/16W
RD94	24872101	Chip, 100 ohm, 1/16W
RD101	24872331	Chip, 330 ohm, 1/16W

Location No.	Part No.	Description
RD102	24872331	Chip, 330 ohm, 1/16W
RD103	24872331	Chip, 330 ohm, 1/16W
RD104	24872331	Chip, 330 ohm, 1/16W
RD105	24872472	Chip, 4700 ohm, 1/16W
RD106	24872472	Chip, 4700 ohm, 1/16W
RD107	24872472	Chip, 4700 ohm, 1/16W
RD108	24872472	Chip, 4700 ohm, 1/16W
RD109	24872472	Chip, 4700 ohm, 1/16W
RD110	24872472	Chip, 4700 ohm, 1/16W
RD111	24872101	Chip, 100 ohm, 1/16W
RD112	24872101	Chip, 100 ohm, 1/16W
RD113	24872472	Chip, 4700 ohm, 1/16W
RD201	24872101	Chip, 100 ohm, 1/16W
RD202	24872101	Chip, 100 ohm, 1/16W
RD203	24872392	Chip, 3900 ohm, 1/16W
RD204	24871392	Chip, 3900 ohm, 1/8W
RD205	24872101	Chip, 100 ohm, 1/16W
RD206	24872101	Chip, 100 ohm, 1/16W
RD207	24872474	Chip, 470k ohm, 1/16W
RD208	24872472	Chip, 4700 ohm, 1/16W
RD209	24872472	Chip, 4700 ohm, 1/16W
RF01	24872222	Chip, 2200 ohm, 1/16W
RF03	24872472	Chip, 4700 ohm, 1/16W
RF04	24872472	Chip, 4700 ohm, 1/16W
RF06	24872102	Chip, 1k ohm, 1/16W
RF08	24872100	Chip, 10 ohm, 1/16W
RF09	24872100	Chip, 10 ohm, 1/16W
RF10	24872100	Chip, 10 ohm, 1/16W
RF11	24872103	Chip, 10k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872101	Chip, 100 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872471	Chip, 470 ohm, 1/16W
RF20	24872222	Chip, 2200 ohm, 1/16W
RF21	24872471	Chip, 470 ohm, 1/16W
RF22	24872471	Chip, 470 ohm, 1/16W
RF26	24872102	Chip, 1k ohm, 1/16W
RJ001	24000824	Chip, Jumper, 2125 type
RJ003	24000824	Chip, Jumper, 2125 type
RK01	24366102	CF, 1k ohm
RK02	24366102	CF, 1k ohm
RK03	24366101	CF, 100 ohm
RK04	24366102	CF, 1k ohm
RK05	24366101	CF, 100 ohm
RK06	24366103	CF, 10k ohm
RK09	24366102	CF, 1k ohm
RK10	24366102	CF, 1k ohm
RK11	24366102	CF, 1k ohm
RK12	24366102	CF, 1k ohm
RK13	24366472	CF, 4700 ohm
RK14	24366102	CF, 1k ohm
RK15	24366103	CF, 10k ohm
RK16	24366101	CF, 100 ohm
RK17	24366101	CF, 100 ohm
RK22	24366101	CF, 100 ohm
RK23	24366472	CF, 4700 ohm
RK24	24366103	CF, 10k ohm
RK25	24366103	CF, 10k ohm
RK30	24366562	CF, 5600 ohm
RK31	24366103	CF, 10k ohm
RK32	24366333	CF, 33k ohm
RK33	24366223	CF, 22k ohm
RK34	24366101	CF, 100 ohm

Location No.	Part No.	Description
RK35	24366102	CF, 1k ohm
RK36	24366333	CF, 33k ohm
RK37	24366223	CF, 22k ohm
RK38	24366101	CF, 100 ohm
RK39	24366102	CF, 1k ohm
RK40	24366103	CF, 10k ohm
RK41	24366103	CF, 10k ohm
RK43	24366223	CF, 22k ohm
RK51	24366101	CF, 100 ohm
RK52	24366101	CF, 100 ohm
RK53	24366101	CF, 100 ohm
RK54	24366103	CF, 10k ohm
RK55	24366102	CF, 1k ohm
RK56	24366561	CF, 560 ohm
RK57	24366102	CF, 1k ohm
RK58	24366153	CF, 15k ohm
RK59	24366101	CF, 100 ohm
RK60	24366223	CF, 22k ohm
RK61	24366822	CF, 8200 ohm
RK62	24366103	CF, 10k ohm
RK63	24366103	CF, 10k ohm
RK64	24366103	CF, 10k ohm
RK65	24366103	CF, 10k ohm
RK66	24366103	CF, 10k ohm
RK67	24366102	CF, 1k ohm
RK68	24366563	CF, 56k ohm
RK69	24366392	CF, 3900 ohm
RK70	24366472	CF, 4700 ohm
RK71	24366272	CF, 2700 ohm
RK72	24366822	CF, 8200 ohm
RK73	24366822	CF, 8200 ohm
RK74	24366222	CF, 2200 ohm
RK76	24366102	CF, 1k ohm
RK79	24366822	CF, 8200 ohm
RK190	24366223	CF, 22k ohm
RK191	24366822	CF, 8200 ohm
RK192	24366332	CF, 3300 ohm
RK193	24366103	CF, 10k ohm
RK194	24366103	CF, 10k ohm
RK195	24366222	CF, 2200 ohm
RK196	24366100	CF, 10 ohm
RQ01	24872102	Chip, 1k ohm, 1/16W
RQ03	24872102	Chip, 1k ohm, 1/16W
RQ04	24872511	Chip, 510 ohm, 1/16W
RQ05	24872471	Chip, 470 ohm, 1/16W
RQ06	24872471	Chip, 470 ohm, 1/16W
RQ07	24872103	Chip, 10k ohm, 1/16W
RQ08	24872102	Chip, 1k ohm, 1/16W
RQ09	24872102	Chip, 1k ohm, 1/16W
RQ10	24872102	Chip, 1k ohm, 1/16W
RQ11	24872561	Chip, 560 ohm, 1/16W
RQ12	24872561	Chip, 560 ohm, 1/16W
RQ13	24872203	Chip, 20k ohm, 1/16W
RQ14	24872273	Chip, 27k ohm, 1/16W
RQ20	24872563	Chip, 56k ohm, 1/16W
RR01	24872181	Chip, 180 ohm, 1/16W
RR02	24872181	Chip, 180 ohm, 1/16W
RR03	24872181	Chip, 180 ohm, 1/16W
RR10	24872103	Chip, 10k ohm, 1/16W
RR11	24872473	Chip, 47k ohm, 1/16W
RR12	24872102	Chip, 1k ohm, 1/16W
RR13	24872622	Chip, 6200 ohm, 1/16W
RR20	24366103	CF, 10k ohm
RR22	24366100	CF, 10 ohm

Location No.	Part No.	Description
RR28	24366473	CF, 47k ohm
RR29	24366473	CF, 47k ohm
RR33	24366101	CF, 100 ohm
RR40	24872102	Chip, 1k ohm, 1/16W
RS01	24366681	CF, 680 ohm
RS02	24366681	CF, 680 ohm
RS03	24366101	CF, 100 ohm
RS04	24366101	CF, 100 ohm
RS05	24366472	CF, 4700 ohm
RS06	24366472	CF, 4700 ohm
RS07	24366472	CF, 4700 ohm
RS08	24366472	CF, 4700 ohm
RS09	24366472	CF, 4700 ohm
RS10	24366472	CF, 4700 ohm
RS11	24366101	CF, 100 ohm
RS13	24366101	CF, 100 ohm
RS14	24366101	CF, 100 ohm
RS15	24366104	CF, 100k ohm
RS16	24366104	CF, 100k ohm
RS17	24366223	CF, 22k ohm
RS18	24366223	CF, 22k ohm
RS19	24366102	CF, 1k ohm
RS20	24366102	CF, 1k ohm
RS21	24366222	CF, 2200 ohm
RS22	24366222	CF, 2200 ohm
RS23	24366101	CF, 100 ohm
RS24	24366101	CF, 100 ohm
RS27	24366104	CF, 100k ohm
RS28	24366104	CF, 100k ohm
RS29	24366223	CF, 22k ohm
RS30	24366223	CF, 22k ohm
RS31	24366103	CF, 10k ohm
RS32	24366104	CF, 100k ohm
RS35	24366223	CF, 22k ohm
RS36	24366223	CF, 22k ohm
RS37	24366104	CF, 100k ohm
RS38	24366104	CF, 100k ohm
RS43	24366681	CF, 680 ohm
RS44	24366681	CF, 680 ohm
RS45	24366681	CF, 680 ohm
RS46	24366681	CF, 680 ohm
RV01	24366101	CF, 100 ohm
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366162	CF, 1600 ohm
RV08	24366162	CF, 1600 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV12	24366681	CF, 680 ohm
RV13	24366681	CF, 680 ohm
RV16	24366471	CF, 470 ohm
RV18	24366123	CF, 12k ohm
RV19	24366101	CF, 100 ohm
RV22	24366102	CF, 1k ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24366101	CF, 100 ohm
RV26	24366181	CF, 180 ohm
RV27	24366750	CF, 75 ohm
RV28	24366683	CF, 68k ohm
RV29	24366273	CF, 27k ohm
RV30	24366750	CF, 75 ohm

Location No.	Part No.	Description
RV32	24366750	CF, 75 ohm
RV33	24366123	CF, 12k ohm
RV34	24366123	CF, 12k ohm
RV35	24366103	CF, 10k ohm
RV36	24366101	CF, 100 ohm
RV38	24366750	CF, 75 ohm
RV40	24366471	CF, 470 ohm
RV60	24366471	CF, 470 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24366101	CF, 100 ohm
RV63	24552151	OMF, 150 ohm, 1/2W
RV64	24366750	CF, 75 ohm
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24366101	CF, 100 ohm
RV67	24552151	OMF, 150 ohm, 1/2W
RV68	24366750	CF, 75 ohm
RV70	24366101	CF, 100 ohm
RV71	24366472	CF, 4700 ohm
RV78	24366221	CF, 220 ohm
RV79	24366680	CF, 68 ohm
RV80	24366102	CF, 1k ohm
RV81	24366750	CF, 75 ohm
RV81	24366472	CF, 4700 ohm
RV82	24366153	CF, 15k ohm
RV83	24366103	CF, 10k ohm
RV85	24366750	CF, 75 ohm
RV86	24366750	CF, 75 ohm
RV87	24366750	CF, 75 ohm
RV89	24366750	CF, 75 ohm
RV90	24366681	CF, 680 ohm
RV91	24366681	CF, 680 ohm
RV92	24366100	CF, 10 ohm
RV93	24366104	CF, 100k ohm
RV94	24366103	CF, 10k ohm
RV95	24366222	CF, 2200 ohm
RV96	24366391	CF, 390 ohm
RV97	24366101	CF, 100 ohm
RV98	24366750	CF, 75 ohm
RX201	24872470	Chip, 47 ohm, 1/16W
RX202	24872122	Chip, 1200 ohm, 1/16W
RX203	24872151	Chip, 150 ohm, 1/16W
RX204	24872392	Chip, 3900 ohm, 1/16W
RX205	24872103	Chip, 10k ohm, 1/16W
RX206	24871331	Chip, 330 ohm, 1/8W
RX207	24872220	Chip, 22 ohm, 1/16W
RX208	24872511	Chip, 510 ohm, 1/16W
RX210	24872122	Chip, 1200 ohm, 1/16W
RX211	24872221	Chip, 220 ohm, 1/16W
RX212	24871561	Chip, 560 ohm, 1/8W
RX213	24872220	Chip, 22 ohm, 1/16W
RX214	24872511	Chip, 510 ohm, 1/16W
RX216	24872122	Chip, 1200 ohm, 1/16W
RX217	24872221	Chip, 220 ohm, 1/16W
RX218	24871561	Chip, 560 ohm, 1/8W
RX219	24872220	Chip, 22 ohm, 1/16W
RX220	24872101	Chip, 100 ohm, 1/16W
RX221	24872153	Chip, 15k ohm, 1/16W
RX222	24872390	Chip, 39 ohm, 1/16W
RX223	24872103	Chip, 10k ohm, 1/16W
RX224	24872103	Chip, 10k ohm, 1/16W
RX225	24872122	Chip, 1200 ohm, 1/16W
RX226	24872181	Chip, 180 ohm, 1/16W
RX227	24872102	Chip, 1k ohm, 1/16W
RX228	24871471	Chip, 470 ohm, 1/8W

Location No.	Part No.	Description
RX229	24872680	Chip, 68 ohm, 1/16W
RX230	24872430	Chip, 43 ohm, 1/16W
RX232	24872103	Chip, 10k ohm, 1/16W
RX233	24872103	Chip, 10k ohm, 1/16W
RX234	24871471	Chip, 470 ohm, 1/8W
RX235	24872271	Chip, 270 ohm, 1/16W
RX236	24872222	Chip, 2200 ohm, 1/16W
RX237	24871471	Chip, 470 ohm, 1/8W
RX238	24872680	Chip, 68 ohm, 1/16W
RX239	24872470	Chip, 47 ohm, 1/16W
RX241	24872103	Chip, 10k ohm, 1/16W
RX242	24872103	Chip, 10k ohm, 1/16W
RX243	24871471	Chip, 470 ohm, 1/8W
RX244	24872271	Chip, 270 ohm, 1/16W
RX245	24872222	Chip, 2200 ohm, 1/16W
RX246	24871471	Chip, 470 ohm, 1/8W
RX247	24872680	Chip, 68 ohm, 1/16W
RX248	24872271	Chip, 270 ohm, 1/16W
RX249	24872821	Chip, 820 ohm, 1/16W
RX250	24872271	Chip, 270 ohm, 1/16W
RX251	24872821	Chip, 820 ohm, 1/16W
RX253	24872103	Chip, 10k ohm, 1/16W
RX254	24872103	Chip, 10k ohm, 1/16W
RX255	24872103	Chip, 10k ohm, 1/16W
RX256	24872103	Chip, 10k ohm, 1/16W
RX257	24872334	Chip, 33k ohm, 1/16W
RX259	24872472	Chip, 4700 ohm, 1/16W
RX260	24872100	Chip, 10 ohm, 1/16W
RX261	24872103	Chip, 10k ohm, 1/16W
RX262	24872103	Chip, 10k ohm, 1/16W
RX263	24872103	Chip, 10k ohm, 1/16W
RX264	24872103	Chip, 10k ohm, 1/16W
RX266	24872472	Chip, 4700 ohm, 1/16W
RX267	24872472	Chip, 4700 ohm, 1/16W
RX268	24872472	Chip, 4700 ohm, 1/16W
RX269	24872472	Chip, 4700 ohm, 1/16W
RX270	24872472	Chip, 4700 ohm, 1/16W
RX271	24872472	Chip, 4700 ohm, 1/16W
RX272	24872472	Chip, 4700 ohm, 1/16W
RX273	24872472	Chip, 4700 ohm, 1/16W
RX274	24872472	Chip, 4700 ohm, 1/16W
RX277	24872103	Chip, 10k ohm, 1/16W
RX278	24872103	Chip, 10k ohm, 1/16W
RX279	24872103	Chip, 10k ohm, 1/16W
RX280	24872103	Chip, 10k ohm, 1/16W
RX283	24872103	Chip, 10k ohm, 1/16W
RX284	24872472	Chip, 4700 ohm, 1/16W
RX286	24872274	Chip, 270k ohm, 1/16W
RX287	24872271	Chip, 270 ohm, 1/16W
RX288	24872332	Chip, 3300 ohm, 1/16W
RX289	24872331	Chip, 330 ohm, 1/16W
RX290	24872331	Chip, 330 ohm, 1/16W
RX291	24872332	Chip, 3300 ohm, 1/16W
RX292	24872331	Chip, 330 ohm, 1/16W
RX293	24872102	Chip, 1k ohm, 1/16W
RX294	24872332	Chip, 3300 ohm, 1/16W
RX295	24872333	Chip, 33k ohm, 1/16W
RX296	24872470	Chip, 47 ohm, 1/16W
RX305	24872470	Chip, 47 ohm, 1/16W
RX309	24872181	Chip, 180 ohm, 1/16W
RX400	24872102	Chip, 1k ohm, 1/16W
RX401	24872471	Chip, 470 ohm, 1/16W
RX402	24872471	Chip, 470 ohm, 1/16W
RX403	24872101	Chip, 100 ohm, 1/16W

Location No	Part No.	Description
RX404	24872102	Chip, 1k ohm, 1/16W
RX405	24872221	Chip, 220 ohm, 1/16W
RX406	24872221	Chip, 220 ohm, 1/16W
RX408	24872221	Chip, 220 ohm, 1/16W
RX409	24872221	Chip, 220 ohm, 1/16W
RX413	24872100	Chip, 10 ohm, 1/16W
RX415	24872100	Chip, 10 ohm, 1/16W
RX511	24872681	Chip, 680 ohm, 1/16W
RX512	24872103	Chip, 10k ohm, 1/16W
RX514	24872332	Chip, 3300 ohm, 1/16W
RX601	24872330	Chip, 33 ohm, 1/16W
RX602	24872330	Chip, 33 ohm, 1/16W
RX603	24872330	Chip, 33 ohm, 1/16W
RX611	24872470	Chip, 47 ohm, 1/16W
RX612	24872470	Chip, 47 ohm, 1/16W
RX613	24872470	Chip, 47 ohm, 1/16W
RX614	24872470	Chip, 47 ohm, 1/16W
RX615	24872470	Chip, 47 ohm, 1/16W
RX616	24872470	Chip, 47 ohm, 1/16W
RX617	24872470	Chip, 47 ohm, 1/16W
RX618	24872470	Chip, 47 ohm, 1/16W
RX619	24872470	Chip, 47 ohm, 1/16W
RX620	24872470	Chip, 47 ohm, 1/16W
RX621	24872470	Chip, 47 ohm, 1/16W
RX622	24872470	Chip, 47 ohm, 1/16W
RX623	24872470	Chip, 47 ohm, 1/16W
RX631	24872470	Chip, 47 ohm, 1/16W
RX632	24872470	Chip, 47 ohm, 1/16W
RX633	24872470	Chip, 47 ohm, 1/16W
RX634	24872470	Chip, 47 ohm, 1/16W
RX635	24872470	Chip, 47 ohm, 1/16W
RX636	24872470	Chip, 47 ohm, 1/16W
RX637	24872470	Chip, 47 ohm, 1/16W
RX638	24872470	Chip, 47 ohm, 1/16W
RX639	24872470	Chip, 47 ohm, 1/16W
RX640	24872470	Chip, 47 ohm, 1/16W
RX641	24872470	Chip, 47 ohm, 1/16W
RX642	24872470	Chip, 47 ohm, 1/16W
RX653	24872100	Chip, 10 ohm, 1/16W
RX654	24872183	Chip, 18k ohm, 1/16W
RX655	24872100	Chip, 10 ohm, 1/16W
RX660	24872221	Chip, 220 ohm, 1/16W
RX661	24872100	Chip, 10 ohm, 1/16W
RX663	24872100	Chip, 10 ohm, 1/16W
RX701	24872183	Chip, 18k ohm, 1/16W
RX704	24872100	Chip, 10 ohm, 1/16W
RX705	24872100	Chip, 10 ohm, 1/16W
RX711	24872183	Chip, 18k ohm, 1/16W
RX712	24872100	Chip, 10 ohm, 1/16W
RX713	24872101	Chip, 100 ohm, 1/16W
RX714	24872183	Chip, 18k ohm, 1/16W
RX721	24872100	Chip, 10 ohm, 1/16W
RX731	24872272	Chip, 2700 ohm, 1/16W
RX732	24872392	Chip, 3900 ohm, 1/16W
RX733	24872222	Chip, 2200 ohm, 1/16W
RX734	24872682	Chip, 6800 ohm, 1/16W
RX735	24872101	Chip, 100 ohm, 1/16W
RX736	24872102	Chip, 1k ohm, 1/16W
RX741	24872100	Chip, 10 ohm, 1/16W
RX742	24872100	Chip, 10 ohm, 1/16W
RX744	24872183	Chip, 18k ohm, 1/16W
RX745	24872100	Chip, 10 ohm, 1/16W
RZ01	24366471	CF, 470 ohm
RZ02	24366152	CF, 1500 ohm

Location No.	Part No.	Description
RZ04	24366332	CF, 3300 ohm
RZ05	24366332	CF, 3300 ohm
RZ06	24366821	CF, 820 ohm
RZ07	24366222	CF, 2200 ohm
RZ08	24366302	CF, 3k ohm
RZ12	24366471	CF, 470 ohm
RZ18	24366821	CF, 820 ohm
RZ19	24366471	CF, 470 ohm
RZ20	24366122	CF, 1200 ohm
RZ21	24366680	CF, 68 ohm
RZ22	24366101	CF, 100 ohm
RZ23	24366821	CF, 820 ohm
RZ24	24366821	CF, 820 ohm
RZ25	24366101	CF, 100 ohm
RZ26	24366101	CF, 100 ohm
RZ28	24366821	CF, 820 ohm
RZ29	24366331	CF, 330 ohm
RZ30	24366331	CF, 330 ohm
RZ31	24366102	CF, 1k ohm
COILS & TRANSFORMERS		
L101	23221803	Coil, Choke, TLN3040D
L200	23289479	Coil, Peaking, TRF44R7AF
L201	23238710	Coil, Peaking, TRF4220AJ
L201	23103845	EMI, TEM2030AY
L202	23103845	EMI, TEM2030AY
L202	23238708	Coil, Peaking, TRF4330AJ
L301	23103859	Coil (Ferrite Bead), TEM2011
L333	23238702	Coil, Peaking, TRF4101AJ
L400	23289101	Coil, Peaking, TRF4101AF
L400	23221886	Coil, Choke, TLN3073
L410	23103859	Coil (Ferrite Bead), TEM2011
L441	23233982	Coil, LIN, TLN2158AG
L442	23248164	Coil, Choke, TLN3437AD
L443	23248199	Coil, Choke, TLN3467AD
L444	23248186	Coil, Choke, LTN3346AD
L449	23103859	Coil (Ferrite Bead), TEM2011
L461	23248111	Coil, Choke, TLN3349D
L470	23103859	Coil (Ferrite Bead), TEM2011
L491	23211923	Coil, Choke, AT4043/100
L501	23289100	Coil, Peaking, TRF4100AF
L502	23103824	Filter, TEM2028K
L503	23289470	Coil, Peaking, TRF4470AF
L510	23238718	Coil, Peaking, TRF4479AJ
L643	23103859	Coil (Ferrite Bead), TEM2011
L645	23103859	Coil (Ferrite Bead), TEM2011
L671	23103859	Coil (Ferrite Bead), TEM2011
L672	23103859	Coil (Ferrite Bead), TEM2011
L676	23238562	Coil, Peaking, TRF4109AJ
L677	23238720	Coil, Peaking, TRF4339AJ
L682	23238562	Coil, Peaking, TRF4109AJ
L683	23238562	Coil, Peaking, TRF4109AJ
L684	23238562	Coil, Peaking, TRF4109AJ
L685	23238562	Coil, Peaking, TRF4109AJ
L701	23289100	Coil, Peaking, TRF4100AF
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L814	23221747	Coil, Choke, TRF9253D
L815	23103937	Coil (Ferrite Bead), TEM2004
L836	23280016	Coil, Peaking, TRF4100AZ
L871	23103859	Coil (Ferrite Bead), TEM2011
L875	23280016	Coil, Peaking, TRF4100AZ

Location No.	Part No.	Description
L876	23289100	Coil, Peaking, TRF4100AF
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L886	23103859	Coil (Ferrite Bead), TEM2011
L889	23222694	Coil, Width, TLN2026
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23280016	Coil, Peaking, TRF4100AZ
L894	23289100	Coil, Peaking, TRF4100AF
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23222694	Coil, Width, TLN2026
⚠L901	23200299	Coil, Degaussing, TSB-2370AR (32MW8DG)
⚠L901	23200309	Coil, Degaussing, TSB-2374AR (28MW8DG)
L902	23289101	Coil, Peaking, TRF4101AF
L903	23289101	Coil, Peaking, TRF4101AF
L904	23289101	Coil, Peaking, TRF4101AF
L905	23289220	Coil, Peaking, TRF4220AF
L906	23289220	Coil, Peaking, TRF4220AF
L907	23289220	Coil, Peaking, TRF4220AF
L908	23289100	Coil, Peaking, TRF4100AF
L910	23289109	Coil, Peaking, TRF41R0AF
L912	23289150	Coil, Peaking, TRF4150AF
L913	23289150	Coil, Peaking, TRF4150AF
L914	23289150	Coil, Peaking, TRF4150AF
L4370	23289101	Coil, Peaking, TRF4101AF
L4430	23289680	Coil, Peaking, TRF4680AF
LA01	23289100	Coil, Peaking, TRF4100AF
LA02	23289100	Coil, Peaking, TRF4100AF
LC05	23238562	Coil, Peaking, TRF4109AJ
LC06	23103859	Coil (Ferrite Bead), TEM2011
LC07	23238562	Coil, Peaking, TRF4109AJ
LC08	23238562	Coil, Peaking, TRF4109AJ
LD81	23289479	Coil, Peaking, TRF44R7AF
LD83	23103859	Coil (Ferrite Bead), TEM2011
LD89	23289470	Coil, Peaking, TRF4470AF
LD102	23238714	Coil, Peaking, TRF4100AJ
LF01	23238506	Coil, Peaking, TRF4229AJ
LF02	23238506	Coil, Peaking, TRF4229AJ
LF03	23238506	Coil, Peaking, TRF4229AJ
LF04	23238506	Coil, Peaking, TRF4229AJ
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238714	Coil, Peaking, TRF4100AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289109	Coil, Peaking, TRF41R0AF
LF13	23289100	Coil, Peaking, TRF4100AF
LF17	23289100	Coil, Peaking, TRF4100AF
LK01	23289100	Coil, Peaking, TRF4100AF
LK50	23289100	Coil, Peaking, TRF4100AF
LQ01	23238709	Coil, Peaking, TRF4270AJ
LQ02	23237991	Coil, Peaking, TRF4479AC
LQ03	23289470	Coil, Peaking, TRF4470AF
LQ04	23238718	Coil, Peaking, TRF4479AJ
LR01	23289100	Coil, Peaking, TRF4100AF
LR22	23103824	Filter, TEM2028K
LV06	23238562	Coil, Peaking, TRF4109AJ
LV07	23238562	Coil, Peaking, TRF4109AJ
LV08	23289330	Coil, Peaking, TRF4330AF
LV09	23289100	Coil, Peaking, TRF4100AF
LV10	23103824	Filter, TEM2028K
LV11	23103824	Filter, TEM2028K

Location No.	Part No.	Description
LV12	23103824	Filter, TEM2028K
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV49	23103824	Filter, TEM2028K
LX201	23103822	Chip (Ferrite Bead), TEM2117T
LX202	23103822	Chip (Ferrite Bead), TEM2117T
LX204	23245829	Chip Inductor, TRF48R2CB
LX205	23245835	Chip Inductor, TRF4270CB
LX206	23245835	Chip Inductor, TRF4270CB
LX208	23103822	Chip (Ferrite Bead), TEM2117T
LX209	23103822	Chip (Ferrite Bead), TEM2117T
LX211	23103822	Chip (Ferrite Bead), TEM2117T
LX213	23103822	Chip (Ferrite Bead), TEM2117T
LX215	23103822	Chip (Ferrite Bead), TEM2117T
LX217	23238713	Coil, Peaking, TRF4120AJ
LX218	23245831	Chip Inductor, TRF4120CB
LX219	23245831	Chip Inductor, TRF4120CB
LX220	23103822	Chip (Ferrite Bead), TEM2117T
LX221	23103822	Chip (Ferrite Bead), TEM2117T
LX222	23103822	Chip (Ferrite Bead), TEM2117T
LX223	23103822	Chip (Ferrite Bead), TEM2117T
LX224	23103822	Chip (Ferrite Bead), TEM2117T
LX230	23103822	Chip (Ferrite Bead), TEM2117T
LX231	23245822	Chip, Inductor, 2.2uH
LX232	23103822	Chip (Ferrite Bead), TEM2117T
LX400	23238562	Coil, Peaking, TRF4109AJ
LX401	23245825	Chip Inductor, TRF43R9CB
LX402	23245825	Chip Inductor, TRF43R9CB
LX403	23238562	Coil, Peaking, TRF4109AJ
LX404	23238562	Coil, Peaking, TRF4109AJ
LX405	23238562	Coil, Peaking, TRF4109AJ
LX406	23238562	Coil, Peaking, TRF4109AJ
LX407	23238562	Coil, Peaking, TRF4109AJ
LX408	23245818	Chip Inductor, TRF41R0CB
LX409	23245818	Chip Inductor, TRF41R0CB
LX511	23103822	Chip (Ferrite Bead), TEM2117T
LX601	23103822	Chip (Ferrite Bead), TEM2117T
LX611	23103822	Chip (Ferrite Bead), TEM2117T
LX621	23103822	Chip (Ferrite Bead), TEM2117T
LX623	23103822	Chip (Ferrite Bead), TEM2117T
LX641	23103822	Chip (Ferrite Bead), TEM2117T
LX643	23103822	Chip (Ferrite Bead), TEM2117T
LX721	23103822	Chip (Ferrite Bead), TEM2117T
LX731	23103822	Chip (Ferrite Bead), TEM2117T
LZ01	23238712	Coil, Peaking, TRF4150AJ
LZ02	23238716	Coil, Peaking, TRF4689AJ
LZ03	23238716	Coil, Peaking, TRF4689AJ
LZ04	23238709	Coil, Peaking, TRF4270AJ
LZ05	23238716	Coil, Peaking, TRF4689AJ
LZ06	23238709	Coil, Peaking, TRF4270AJ
LZ07	23238709	Coil, Peaking, TRF4270AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
LZ11	23289270	Coil, Peaking, TRF4270AF
T400	23224364	Transformer, Focus, TLN2168AH (32MW8DG)
T401	23224371	Transformer, Horiz Drive, TLN1080AH
⚠T461	23236517	Transformer, Flyback, TFB3079AR (32MW8DG)
⚠T461	23236537	Transformer, Flyback, TFB4142AR (28MW8DG)
T461A	23236447	Cable, Anode
T461B	23236447	Cable, Focus
T461C	23236447	Cable, Screen
T801	23211670	Line Filter, TRF3164G
T802	23211670	Line Filter, TRF3164G
T804	23211670	Line Filter, TRF3164G
⚠T863	23217359	Transformer, Converter, TPW3374AG

SEMICONDUCTORS

Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6541130	Transistor, 2SA1162-Y
Q203	A6734590	Transistor, 2SC752(G)TM-Y
Q204	A6335470	Transistor, 2SC2712-Y
Q205	A6335470	Transistor, 2SC2712-Y
Q205	A6317440	Transistor, 2SC1815-Y
Q207	A6342206	Transistor, 2SC2878-A(TE
Q208	A6534053	Transistor, 2SA1015-Y(TE
Q270	A6002040	Transistor, RN1204
Q271	A6002040	Transistor, RN1204
Q272	A6012040	Transistor, RN2204
Q273	A6317440	Transistor, 2SC1815-Y
Q301	23905610	IC, LA7846N
Q301B	70391355	Screw, BITTB3X8SZN
Q303	A6534053	Transistor, 2SA1015-Y(TE
Q304	A6317440	Transistor, 2SC1815-Y
Q331	A6534053	Transistor, 2SA1015-Y(TE
Q332	A6317440	Transistor, 2SC1815-Y
Q334	A6319576	Transistor, 2SC2073 FA-4
Q360	A6002040	Transistor, RN1204
Q361	A6002040	Transistor, RN1204
Q362	A6002050	Transistor, RN1205
Q370	A6534053	Transistor, 2SA1015-Y(TE
Q402	A6325419	Transistor, 2SC2235-O(FA
Q404	A6371775	Transistor, 2SC5144
Q404B	A8012650	Spacer, AC263
Q404D	72471082	Screw, BRDT2W3X10 SZN
Q418	23314141	Transistor, 2SC3852
Q418B	70391355	Screw, BITTB3X8SZN
Q420	23314141	Transistor, 2SC3852
Q420	23316816	IC, LA7860
Q420B	70391355	Screw, BITTB3X8SZN
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23314141	Transistor, 2SC3852
Q430B	70391356	Screw, BITTB3X10 SZN
Q4321	A6002040	Transistor, RN1204
Q4370	B0385853	IC, TA1241AN
Q4371	A6317440	Transistor, 2SC1815-Y
Q4421	A6002040	Transistor, RN1204
Q4423	A6325419	Transistor, 2SC2235-O(FA
Q4490	A8641063	Photo Coupler, TLP521-1
Q4491	23314917	FET, 2SK2003-01MR
Q4493	A6317440	Transistor, 2SC1815-Y
Q460	23314850	Transistor, 2SA1788-E
Q460B	23037312	Screw, PB4X07X10SBN
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q487	A6317440	Transistor, 2SC1815-Y
Q488	A6002040	Transistor, RN1204
Q489	A6012020	Transistor, RN2202
Q501	B0385990	IC, TA1259N
Q502	A6335470	Transistor, 2SC2712-Y
Q503	A6335470	Transistor, 2SC2712-Y
Q510	A6335470	Transistor, 2SC2712-Y
Q518	A6335470	Transistor, 2SC2712-Y

Location No.	Part No.	Description
Q519	A6534053	Transistor, 2SA1015-Y(TE
Q611	A6534053	Transistor, 2SA1015-Y(TE
Q612	A6534053	Transistor, 2SA1015-Y(TE
Q640	B0377341	IC, TA8256H(V31
Q640B	70391355	Screw, BITTB3X8SZN
Q641	A6342206	Transistor, 2SC2878-A(TE
Q642	A6342206	Transistor, 2SC2878-A(TE
Q643	A6342206	Transistor, 2SC2878-A(TE
Q670	B0377341	IC, TA8256H(V31
Q670B	70391355	Screw, BITTB3X8SZN
Q671	A6342206	Transistor, 2SC2878-A(TE
Q672	A6342206	Transistor, 2SC2878-A(TE
Q673	A6342206	Transistor, 2SC2878-A(TE
Q688	A6002040	Transistor, RN1204
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534053	Transistor, 2SA1015-Y(TE
Q711	23314911	Transistor, 2SB1569A
Q711B	70391355	Screw, BITTB3X8SZN
Q712	23314914	Transistor, 2SD2400A
Q712B	70391355	Screw, BITTB3X8SZN
Q719	A6319311	Transistor, 2SC1959-Y(TE
Q801	23905084	IC, STR-S6709
Q801B	72471082	Screw, BRDT2W3X10 SZN
Q802	23314141	Transistor, 2SC3852
⚠Q826	A8643108	Photo Coupler, TLP621(GR-LF
Q830	23314141	Transistor, 2SC3852
Q830B	70391355	Screw, BITTB3X8SZN
Q831	23314141	Transistor, 2SC3852
Q831B	70391355	Screw, BITTB3X8SZN
Q832	23905977	IC, PQ09RD11
Q832B	70391355	Screw, BITTB3X8SZN
Q833	23314141	Transistor, 2SC3852
Q833B	70391355	Screw, BITTB3X8SZN
Q840	23318299	IC, L78MR05
Q840B	70391356	Screw, BITTB3X10 SZN
Q901	A6368700	Transistor, 2SC4544
Q901B	70391355	Screw, BITTB3X8SZN
Q902	A6317440	Transistor, 2SC1815-Y
Q903	A6368700	Transistor, 2SC4544
Q903B	70391355	Screw, BITTB3X8SZN
Q904	A6317440	Transistor, 2SC1815-Y
Q905	A6368700	Transistor, 2SC4544
Q905B	70391355	Screw, BITTB3X8SZN
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6509154	Transistor, 2SA562TM-Y(T)
Q908	A6321265	Transistor, 2SC2120-Y(TE)
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y
Q912	A6534053	Transistor, 2SA1015-Y(TE
Q913	A6534053	Transistor, 2SA1015-Y(TE
Q914	A6317440	Transistor, 2SC1815-Y
QA01	23906726	IC, TMP87CS38N-3606
QA02	23905320	IC, NM24C16EN
QA04	A6002040	Transistor, RN1204
QA05	A6734590	Transistor, 2SC752(G)TM-Y
QA06	70119743	IC, PST523D
QB01	A6317440	Transistor, 2SC1815-Y
QB30	A6317440	Transistor, 2SC1815-Y
QB81	A6342206	Transistor, 2SC2878-A(TE
QB82	A6342206	Transistor, 2SC2878-A(TE
QB83	A6534053	Transistor, 2SA1015-Y(TE

Location No.	Part No.	Description
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534053	Transistor, 2SA1015-Y(TE
QB94	A6534053	Transistor, 2SA1015-Y(TE
QB95	A6534053	Transistor, 2SA1015-Y(TE
QB96	A6534053	Transistor, 2SA1015-Y(TE
QD01	23906068	IC, ZR38600PQC
QD02	23906069	IC, AK4309AVM-E2
QD04	A6030620	IC, TC7S04F
QD05	A6030620	IC, TC7S04F
QD06	23906069	IC, AK4309AVM-E2
QD07	23906069	IC, AK4309AVM-E2
QD08	23906585	IC, NJM2058M-TE2
QD30	B0385647	IC, TA1217AN
QD80	23314141	Transistor, 2SC3852
QD81	B0372560	IC, TA78L005AP
QD89	A6335470	Transistor, 2SC2712-Y
QD102	70119743	IC, PST523D
QD103	23314314	Transistor, XN4501
QD201	23905560	IC, M62420SP
QF01	23906346	IC, SDA5273-2S
QF03	23314204	Transistor, 2SC2412K,Q
QF04	A6734590	Transistor, 2SC752(G)TM-Y
QF10	23906641	IC, AS4C14400
QK05	23906179	IC, MM1327XD
QK06	A6317440	Transistor, 2SC1815-Y
QK07	70119743	IC, PST523D
QK08	A6534053	Transistor, 2SA1015-Y(TE
QK10	A6317440	Transistor, 2SC1815-Y
QK190	A6317440	Transistor, 2SC1815-Y
QK191	A6317440	Transistor, 2SC1815-Y
QK30	A6317440	Transistor, 2SC1815-Y
QK31	A6317440	Transistor, 2SC1815-Y
QK32	A6317440	Transistor, 2SC1815-Y
QQ01	B0385755	IC, TA1229N
QQ02	B0383881	IC, TA8772AN
QQ03	A6335470	Transistor, 2SC2712-Y
QQ04	A6335470	Transistor, 2SC2712-Y
QR01	B0386235	IC, TA1287P
QR21	A6317440	Transistor, 2SC1815-Y
QR23	A6335470	Transistor, 2SC2712-Y
QS01	A6342206	Transistor, 2SC2878-A(TE
QS02	A6342206	Transistor, 2SC2878-A(TE
QS03	A6342206	Transistor, 2SC2878-A(TE
QS04	A6342206	Transistor, 2SC2878-A(TE
QS05	A6342206	Transistor, 2SC2878-A(TE
QS06	A6342206	Transistor, 2SC2878-A(TE
QS07	A6010040	Transistor, RN2004
QS08	A6342206	Transistor, 2SC2878-A(TE
QS09	A6342206	Transistor, 2SC2878-A(TE
QV01	B0385650	IC, TA1218N
QV02	A6317440	Transistor, 2SC1815-Y
QV06	A6534053	Transistor, 2SA1015-Y(TE
QV07	A6342206	Transistor, 2SC2878-A(TE
QV08	A6317440	Transistor, 2SC1815-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6317440	Transistor, 2SC1815-Y
QV11	A6534053	Transistor, 2SA1015-Y(TE
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QV80	A6534053	Transistor, 2SA1015-Y(TE
QX201	23314204	Transistor, 2SC2412K,Q
QX202	23314204	Transistor, 2SC2412K,Q
QX204	23314202	Transistor, 2SA1037K-Q
QX206	23314202	Transistor, 2SA1037K-Q

Location No.	Part No.	Description
QX207	23905540	IC, TDA8755T
QX209	23905541	IC, SAA7165WP
QX210	23314202	Transistor, 2SA1037K-Q
QX211	23314204	Transistor, 2SC2412K,Q
QX212	23314202	Transistor, 2SA1037K-Q
QX213	23314204	Transistor, 2SC2412K,Q
QX214	23314202	Transistor, 2SA1037K-Q
QX215	23314204	Transistor, 2SC2412K,Q
QX219	23906737	IC, 83C654EBA584
QX220	A6030871	IC, TC7W04F(BRA)
QX221	23906467	IC, SAA4952WP
QX222	23905013	IC, TLC2932IPW
QX223	23905013	IC, TLC2932IPW
QX224	23905013	IC, TLC2932IPW
QX227	A6030107	IC, TC7S14F
QX228	70119743	IC, PST523D
QX231	23314204	Transistor, 2SC2412K,Q
QX232	23314204	Transistor, 2SC2412K,Q
QX235	B0370000	IC, TA78L05F
QX411	A6030630	IC, TC7S08F
QX412	A6030630	IC, TC7S08F
QX511	A6030871	IC, TC7W04F(BRA)
QX512	A6361770	Transistor, 2SC3437-Y
QX601	23906466	IC, SAA4991WP
QX611	23906484	IC, BA033T
QX621	23906468	IC, SAA4955TJ
QX641	23906468	IC, SAA4955TJ
QX651	A6030640	IC, TC7S32F
QX710	A6030630	IC, TC7S08F
QX720	A6030640	IC, TC7S32F
QX730	23314527	Transistor, XN4401
QX731	A6361770	Transistor, 2SC3437-Y
QX740	A6030640	IC, TC7S32F
QZ01	B0410688	IC, TC9090AN
QZ02	A6317440	Transistor, 2SC1815-Y
QZ03	A6317440	Transistor, 2SC1815-Y
QZ04	A6317440	Transistor, 2SC1815-Y
QZ06	A6317440	Transistor, 2SC1815-Y
D101	23316411	Diode, Zener, HZT33-12
D201	23118041	Diode, MA111-(TX)
D240	23316553	Diode, 1SS145
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23316794	Diode, SC570A
D312	23115599	Diode, 1N4148
D370	23316658	Diode, Zener, MTZJ3.6A
D371	23115599	Diode, 1N4148
D404	23357043	Diode, FMQ-G5GS
D404C	72471082	Screw, BRDT2W3X10 SZN
D406	23118479	Diode, BYD33J
D419	23316716	Diode, Zener, MTZJ11B
D420	23316716	Diode, Zener, MTZJ11B
D421	23316672	Diode, Zener, MTZJ5.6B
D422	23316726	Diode, Zener, MTZJ15C
D431	23316678	Diode, Zener, MTZJ6.8B
D432	23316678	Diode, Zener, MTZJ6.8B
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D444	23118479	Diode, BYD33J
D445	23118479	Diode, BYD33J
D460	23118479	Diode, BYD33J
D461	23316803	Diode, FMU-G16S
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A

Location No.	Part No.	Description
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D474	23316719	Diode, Zener, MTZJ12B
D486	23316731	Diode, Zener, MTZJ18B
D490	23115599	Diode, 1N4148
D501	23115599	Diode, 1N4148
D502	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D615	23115599	Diode, 1N4148
D617	23115599	Diode, 1N4148
D618	23115599	Diode, 1N4148
D620	23115599	Diode, 1N4148
D621	23115599	Diode, 1N4148
D622	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D642	23115599	Diode, 1N4148
D643	23115599	Diode, 1N4148
D647	23115599	Diode, 1N4148
D648	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D683	23115599	Diode, 1N4148
D684	23115599	Diode, 1N4148
D685	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23357041	Diode, LN6SB60-F05
D801B	70391355	Screw, BITTB3X8SZN
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23118451	Diode, RU-4A
D815	23316725	Diode, Zener, MTZJ15B
D828	23115599	Diode, 1N4148
D836	23316673	Diode, Zener, MTZJ5,6C
D871	23118479	Diode, BYD33J
D883	23316406	Diode, FML-G16S
D883B	70391355	Screw, BITTB3X8SZN
D885	23316184	Diode, FML-G12S
D885B	70391355	Screw, BITTB3X8SZN
D891	23316184	Diode, FML-G12S
D891B	70391355	Screw, BITTB3X8SZN
D892	23316184	Diode, FML-G12S
D892B	70391355	Screw, BITTB3X8SZN
D893	23316673	Diode, Zener, MTZJ5,6C
D894	23316673	Diode, Zener, MTZJ5,6C
D896	23118479	Diode, BYD33J
D901	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148

Location No.	Part No.	Description
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D910	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
D912	23115599	Diode, 1N4148
D913	23115599	Diode, 1N4148
D914	23115599	Diode, 1N4148
D4301	23316726	Diode, Zener, MTZJ15C
D4371	23115599	Diode, 1N4148
D4386	23316718	Diode, Zener, MTZJ12A
D4387	23316718	Diode, Zener, MTZJ12A
D4388	23316718	Diode, Zener, MTZJ12A
D4399	23115599	Diode, 1N4148
DB01	23358505	LED, SLR56VC196F
DB02	23358503	LED, SCL003MC3FX
DB30	23115599	Diode, 1N4148
DD81	23316661	Diode, Zener, MTZJ3.9B
DF01	23316654	Diode, Zener, MTZJ3.0A
DR01	23316666	Diode, Zener, MTZJ4.7B
DR02	23115599	Diode, 1N4148
DV01	23316687	Diode, Zener, MTZJ9.1B
DV02	23316687	Diode, Zener, MTZJ9.1B
DV03	23316687	Diode, Zener, MTZJ9.1B
DV04	23316687	Diode, Zener, MTZJ9.1B
DV05	23316687	Diode, Zener, MTZJ9.1B
DV06	23316687	Diode, Zener, MTZJ9.1B
DV07	23316687	Diode, Zener, MTZJ9.1B
DV10	23115599	Diode, 1N4148
DV11	23115599	Diode, 1N4148
DV12	23316687	Diode, Zener, MTZJ9.1B
DV80	23115599	Diode, 1N4148
DX711	23118041	Diode, MA111-(TX)
DX731	23118041	Diode, MA111-(TX)
DX741	23118041	Diode, MA111-(TX)
DX742	23118041	Diode, MA111-(TX)
DZ01	23316690	Diode, Zener, MTZJ10B

MISCELLANEOUS

BB00	23903022	Socket, 8P, 2.5
BB00A	23368627	Plug, 8P, 2.5
BB01	23903022	Socket, 8P, 2.5
BB10	23903022	Socket, 8P, 2.5
BB10A	23368627	Plug, 8P, 2.5
BB11	23903022	Socket, 8P, 2.5
BB20	23903022	Socket, 8P, 2.5
BB20A	23368627	Plug, 8P, 2.5
BB21	23903022	Socket, 8P, 2.5
BB30	23903022	Socket, 8P, 2.5
BB30A	23368627	Plug, 8P, 2.5
BB31	23903022	Socket, 8P, 2.5
BB40	23903022	Socket, 8P, 2.5
BB40A	23368627	Plug, 8P, 2.5
BB41	23903022	Socket, 8P, 2.5
BB50	23903022	Socket, 8P, 2.5
BB50A	23368627	Plug, 8P, 2.5
BB51	23903022	Socket, 8P, 2.5
BB60	23903022	Socket, 8P, 2.5
BB60A	23368627	Plug, 8P, 2.5
BB61	23903022	Socket, 8P, 2.5
BB70	23903022	Socket, 8P, 2.5
BB70A	23368627	Plug, 8P, 2.5
BB71	23903022	Socket, 8P, 2.5
BB80	23903022	Socket, 8P, 2.5
BB80A	23368627	Plug, 8P, 2.5

Location No.	Part No.	Description
BB81	23903022	Socket, 8P, 2.5
BB90	23903022	Socket, 8P, 2.5
BB90A	23368627	Plug, 8P, 2.5
BB91	23903022	Socket, 8P, 2.5
B202	23470484	Frame, Terminal
B221	23037312	Screw, PB4X07X10SBN
B223	23035412	Screw, BTB4X12SZN
B224	23037312	Screw, PB4X07X10SBN
⚠F470	23144503	Fuse, 1.25A
F470A	23165433	Holder, Fuse
⚠F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
⚠F802	23144506	Fuse, 2.5A
F802A	23165433	Holder, Fuse
⚠F889	23144458	Fuse, 5.0A
F889A	23165433	Holder, Fuse
G401	23103859	Coil (Ferrite Bead), TEM2011
G402	23103859	Coil (Ferrite Bead), TEM2011
G403	23103859	Coil (Ferrite Bead), TEM2011
G404	23103859	Coil (Ferrite Bead), TEM2011
G405	24366101	CF, 100 ohm (32MW8DG)
G430	A7568460	Diode, TVR-1B
G465	23316672	Diode, Zener, MTZJ5.6B
G510	23289479	Coil, Peaking, TRF44R7AF
G601	23238714	Coil, Peaking, TRF4100AJ
G602	23238714	Coil, Peaking, TRF4100AJ
G4385	24367681	CF, 680 ohm, ±2% (32MW8DG)
GF01	23238562	Coil, Peaking, TRF4109AJ
GJ02	24000824	Chip, Jumper, 2125 type
GJ05	24000824	Chip, Jumper, 2125 type
GJ06	24000824	Chip, Jumper, 2125 type
GV05	23238562	Coil, Peaking, TRF4109AJ
GV13	24366681	CF, 680 ohm
GV17	23289109	Coil, Peaking, TRF41R0AF
GV80	24366681	CF, 680 ohm
GV81	24366681	CF, 680 ohm
H002	23148326	Module, MVGS49B, IF MPX
KB01	23904946	Remote Sensor, RPM-676CBR-S
P004	23161702	Terminal, 8P
P501A	23903025	Socket, 25P
P502A	23903025	Socket, 25P
P661	23363607	Headphone Jack, 3.5mm
⚠P801	23372014	Power Cord
P831A	23164965	Plug, 4P
PD04	23364092	Pin Jack
PD05	A5812240	IC, TORX176
PD30	23368511	Plug, 7P 2.5MM
PD30A	23902742	Socket, 7P
PD31	23367722	Plug, 13P, 2.5MM
PD31A	23902746	Socket, 13P
PF01A	23902655	Socket, B-B, 15P
PF01A	23367724	Connector, B-B, 15P
PK01A	23902213	Socket, 10P 2.5MM
PK01B	23368130	Plug, 10P 2.5MM
PK02A	23902655	Socket, B-B, 15P
PK02B	23367724	Connector, B-B, 15P
PU01	23368634	Plug, 25P 1.5MM
PU02	23368634	Plug, 25P 1.5MM
PV03	23365515	Jack, SVHS
PV04	23363252	Pin Jack, Yellow
PV05	23365508	Jack, Phono
PV11A	23902863	Socket, 20P 2MM
PV11B	23368520	Plug, 20P 2MM

Location No.	Part No.	Description
PX01A	23902655	Socket, B-B, 15P
PX01B	23367724	Connector, B-B, 15P
PX02A	23902781	Socket, 12P, 2.5MM
PX02B	23368531	Plug, 12P, 2.5MM
PZ01A	23902213	Socket, 10P 2.5MM
PZ01B	23368130	Plug, 10P 2.5MM
S601	23145355	Switch, Slide, 4C-2P
⚠S801	23344395	Switch, Power
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
⚠V901A	23903027	Socket, CRT, 8P (32MW8DG)
⚠V901A	23902891	Socket, CRT, 10P (28MW8DG)
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W663	23351107	Speaker, SPK-1374, 60x120mm, 8 ohm
W664	23351107	Speaker, SPK-1374, 60x120mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X503	23153979	Crystal, 4.43MHz
XA01	23153325	Ceramic Resonator, 8.00M, TCR1056
XA101	23153325	Ceramic Resonator, 8.00M, TCR1056
XF01	23153421	Crystal, 20.48MHz
XQ01	23153969	Crystal, 4MHz
XX201	23153930	Crystal, 12.0MHz
Z201	23107519	Ceramic Video Trap, 4.43MHz, TCF1066
Z410	23110840	Focus Pack, TPA6029, (32MW8DG)
⚠Z420	23144539	Protector, PRF20005491, 125V, 2A
⚠Z430	23144536	Protector, PRF10005491, 125V, 1A
Z801	23103839	Filter, TFE1012
⚠Z801	23904998	IC, HIC1016
⚠Z890	23144543	Protector, PRF50005491, 125V, 5A
⚠Z891	23144543	Protector, PRF50005491, 125V, 5A
⚠Z894	23144539	Protector, PRF20005491, 125V, 2A
⚠Z896	23144539	Protector, PRF20005491, 125V, 2A
⚠Z897	23144539	Protector, PRF20005491, 125V, 2A
ZC01	23107626	Filter, TEM1022
ZD101	23153325	Ceramic Resonator, 8.00M, TCR1056
ZK01	23262661	Coil, IF, TRF1155D
ZK02	23153325	Ceramic Resonator, 8.00M, TCR1056

Location No.	Part No.	Description
ZX201	23103823	Filter, TEM2027D
ZX301	23303181	Filter, TEM1012N
ZX302	23303181	Filter, TEM1012N

PC BOARD ASSEMBLIES

✻U101A	23782134	Dolby-D Board, PB8210Y-1
✻U101B	23782135	Digital-IN Board, PB8210Y-2
✻U103	23781836	VCD Board, PB8059
✻U104A	23782157	Text Board, PB7928W
✻U105A	23782381	Digital-Scan Board, PB8351X
✻U901	23782392	CRT Drive Board, PB7466Y (32MW8DG)
✻U901	23782514	CRT Drive Board, PB7212R (28MW8DG)
✻U902	23796985	Signal Board, PB8352X (32MW8DG)
✻U902	23709659	Signal Board, PB8352Y (28MW8DG)
✻U903	23782373	Power Board, PB8366X
✻U904A	23782378	DEF Board, PB7275H-1 (32MW8DG)
U904A	23782517	DEF Board, PB7275N-1 (28MW8DG)
✻U904B	23782379	CONT-1 Board, PB7275H-2 (32MW8DG)
✻U904B	23782518	CONT-1 Board, PB7275N-2 (28MW8DG)
✻U904C	23782380	CONT-2 Board, PB7275H-3 (32MW8DG)
✻U904C	23782519	CONT-2 Board, PB7275N-3 (28MW8DG)
✻U905	23782391	Back-T Board, PB7276Y
✻U906	23782374	DIGI-COMB Board, PB8353X
✻U907	23782375	Auto Live Board, PB8354X

PICTURE TUBE

⚠V901	23312708	Picture Tube, W76ESF031X44 (32MW8DG)
⚠V901	23312727	Picture Tube, W66ESF002X44 (28MW8DG)

TUNER

H001	23321316	Tuner, EGA21LX2

ACCESSORIES

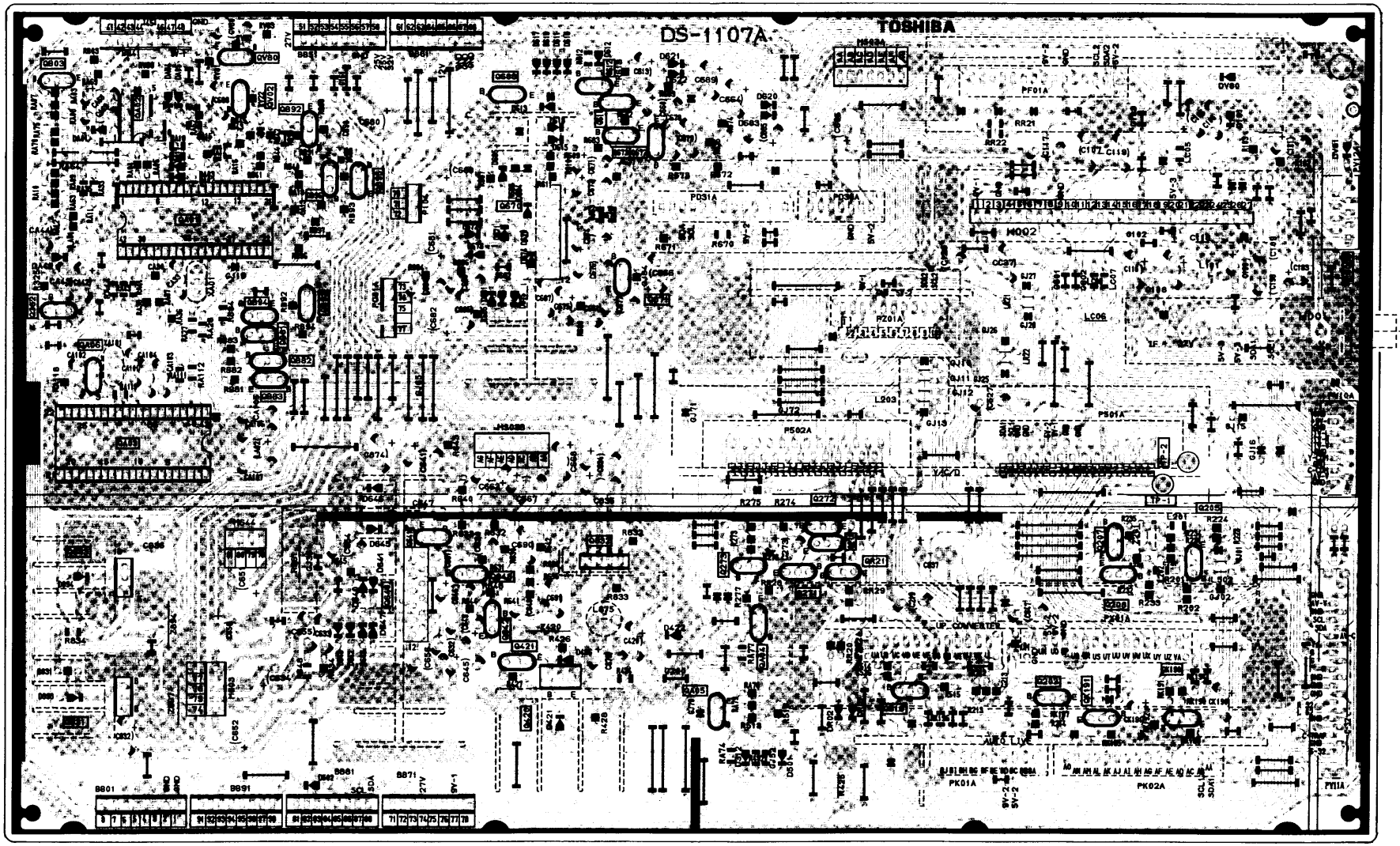
K902	23306176	Remote Hand Unit, CT-9868
AT04	23305572	Battery Cover
Y101	23563452	Owner's Manual, English, 32/28MW8G
Y102	23563453	Owner's Manual, French, 32/28MW8G
Y103	23563454	Owner's Manual, German, 32/28MW8G
Y104	23563455	Owner's Manual, Italian, 32/28MW8G

Location No.	Part No.	Description
CABINET PARTS		
A214	23035412	Screw, BTB4X12SZN
A215	23035412	Screw, BTB4X12SZN
A233	23430354	Lens, Remote (32MW8DG)
A233	23430394	Lens, Remote (28MW8DG)
A234	23430355	Piece, LED (32MW8DG)
A234	23430395	Piece, LED (28MW8DG)
A241	70368125	Push Catch for Door
⚠A401	23426956	Back Cover (32MW8DG)
⚠A401	23427107	Back Cover (28MW8DG)
A411	23550188	Label, Model No. (32MW8DG)
A411	23550224	Label, Model No. (28MW8DG)
A420	23460940	Trim, Back Terminal (32MW8DG)
A420	23460899	Trim, Back Terminal (28MW8DG)
A501	23030187	Screw, CRT5X30
A701		Carton (32MW8DG)
A701	23525700	Carton (28MW8DG)
A702	23935564	Bottom Packing (32MW8DG)
A702	23935625	Bottom Packing (28MW8DG)
A703	23935565	Top Packing (32MW8DG)
A703	23935626	Top Packing (28MW8DG)
A710	23550189	Label, Carton (32MW8DG)
A710	23550225	Label, Carton (28MW8DG)

Location No.	Part No.	Description

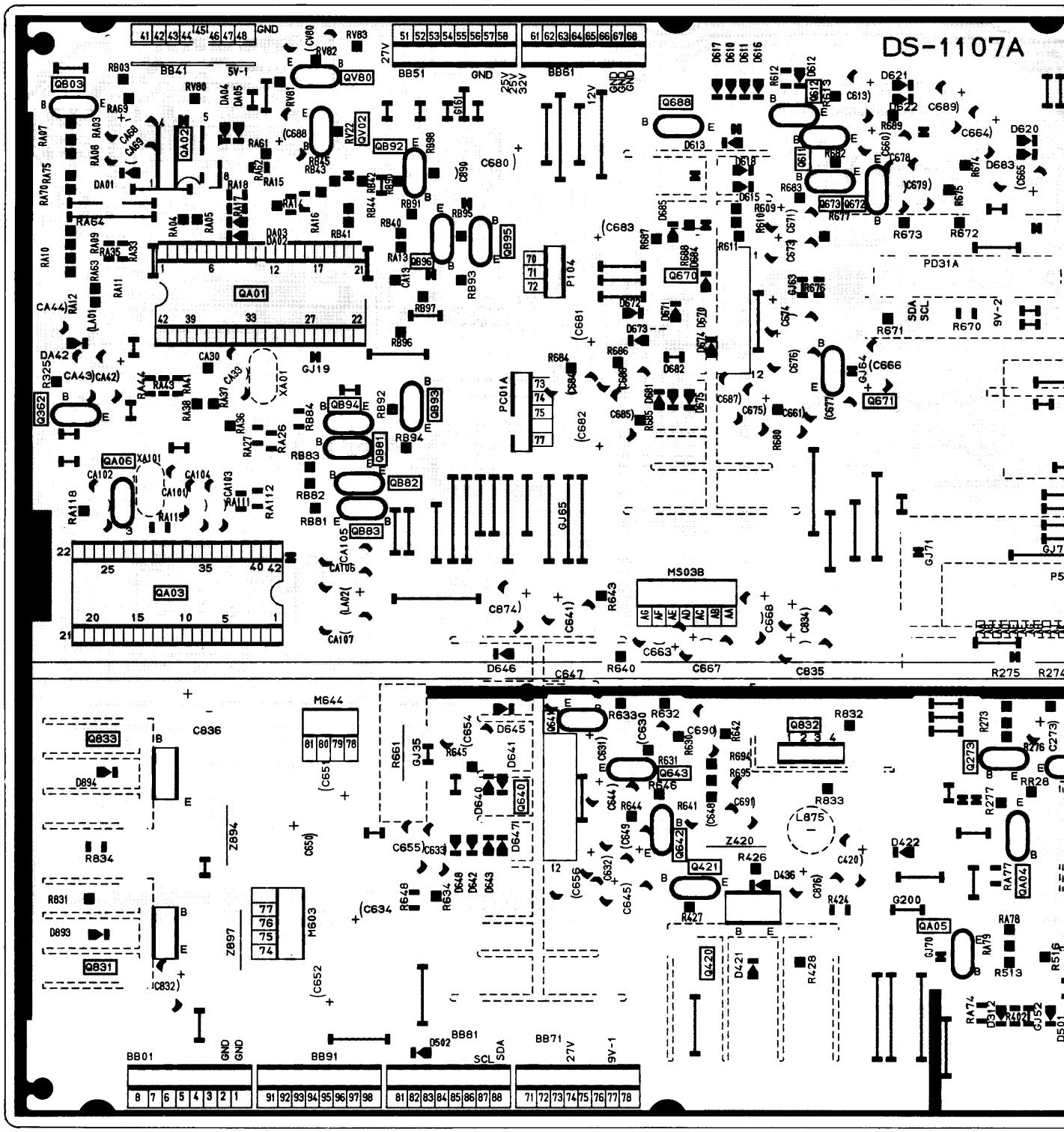
SIGNAL BOARD PB8352X

BOTTOM (FOIL) SIDE



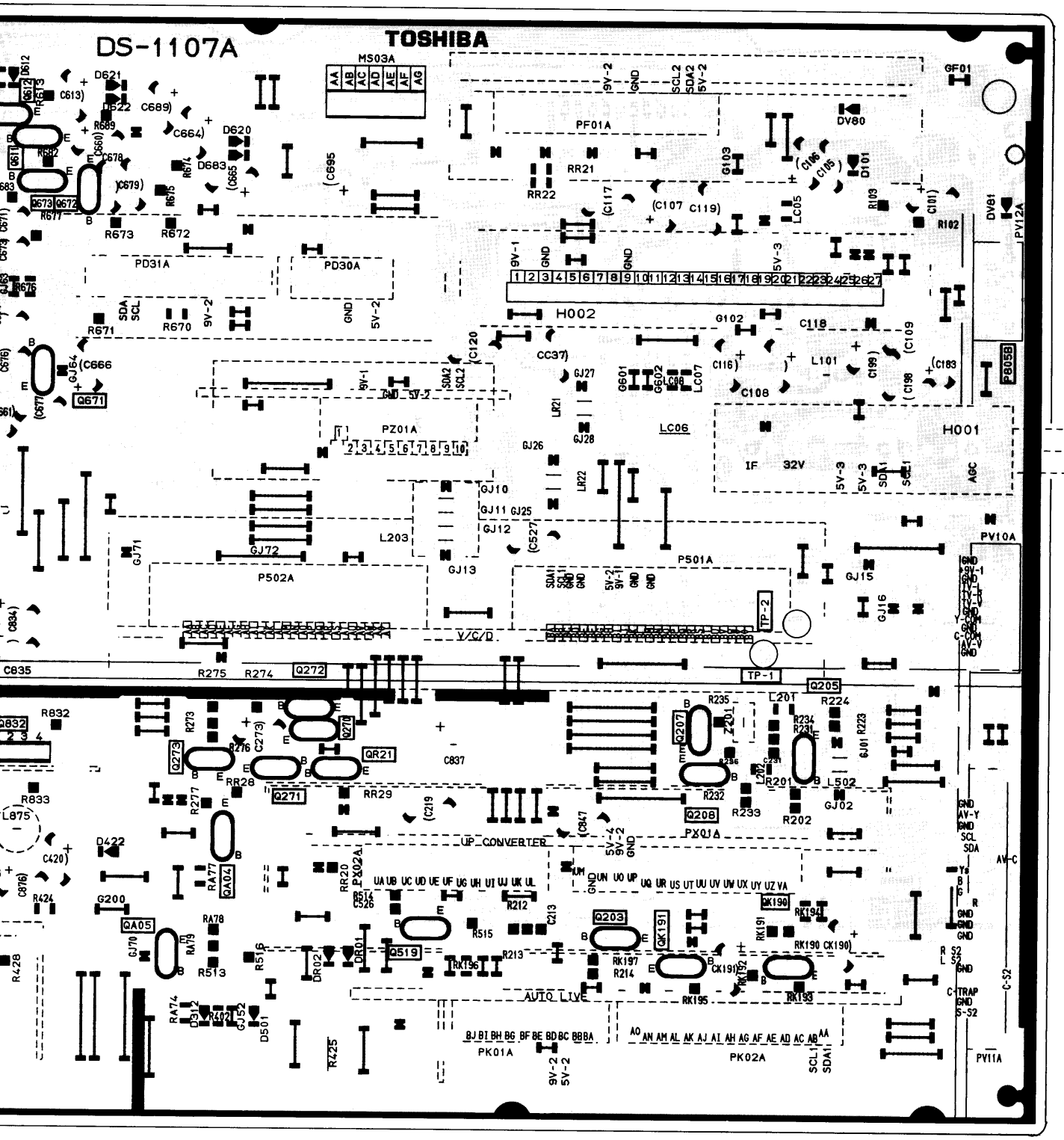
SIGNAL BOARD PB8352

BOTTOM (FOIL) SIDE



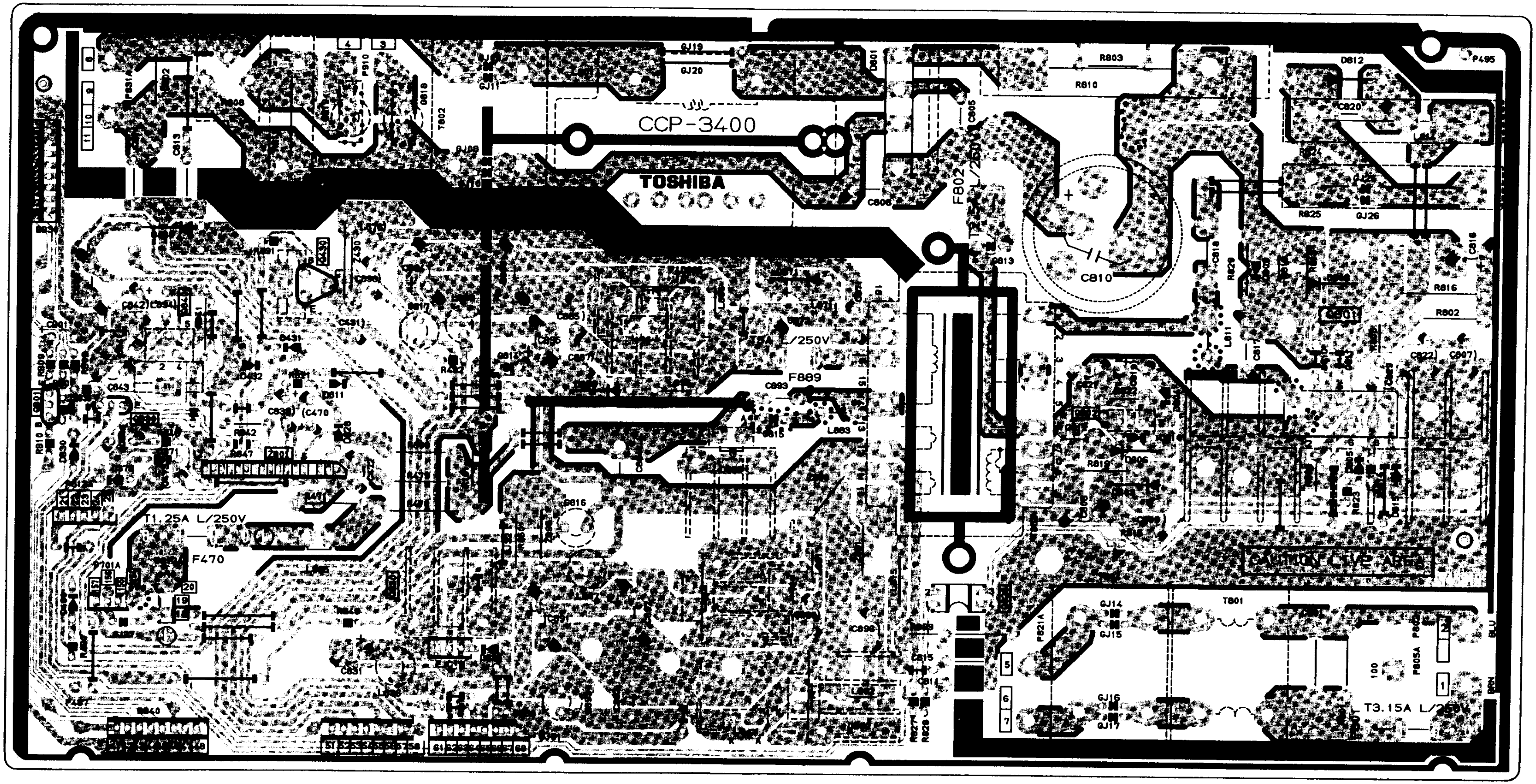
GNAL BOARD PB8352X

BOTTOM (FOIL) SIDE



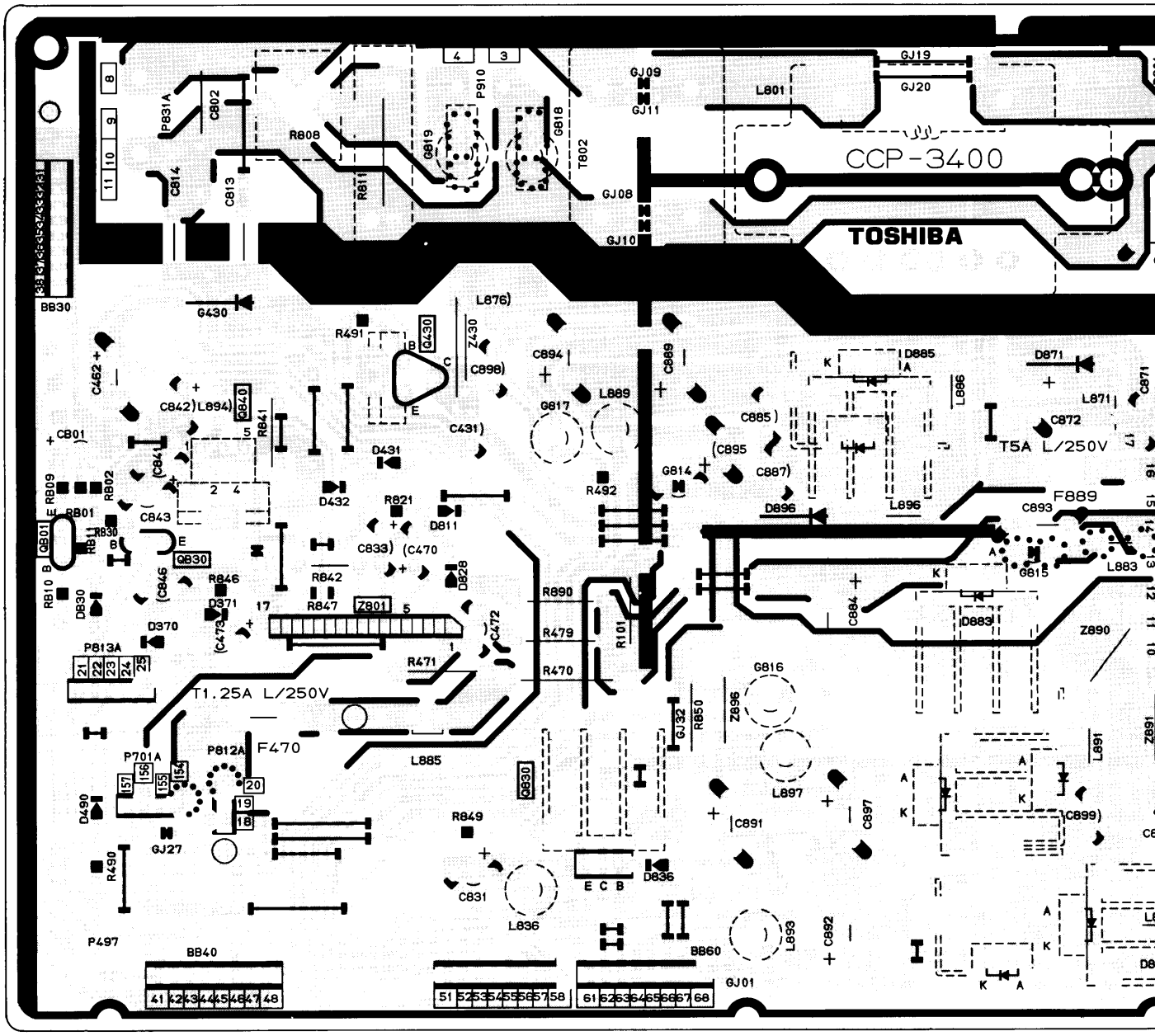
POWER BOARD PB8366X

BOTTOM (FOIL) SIDE



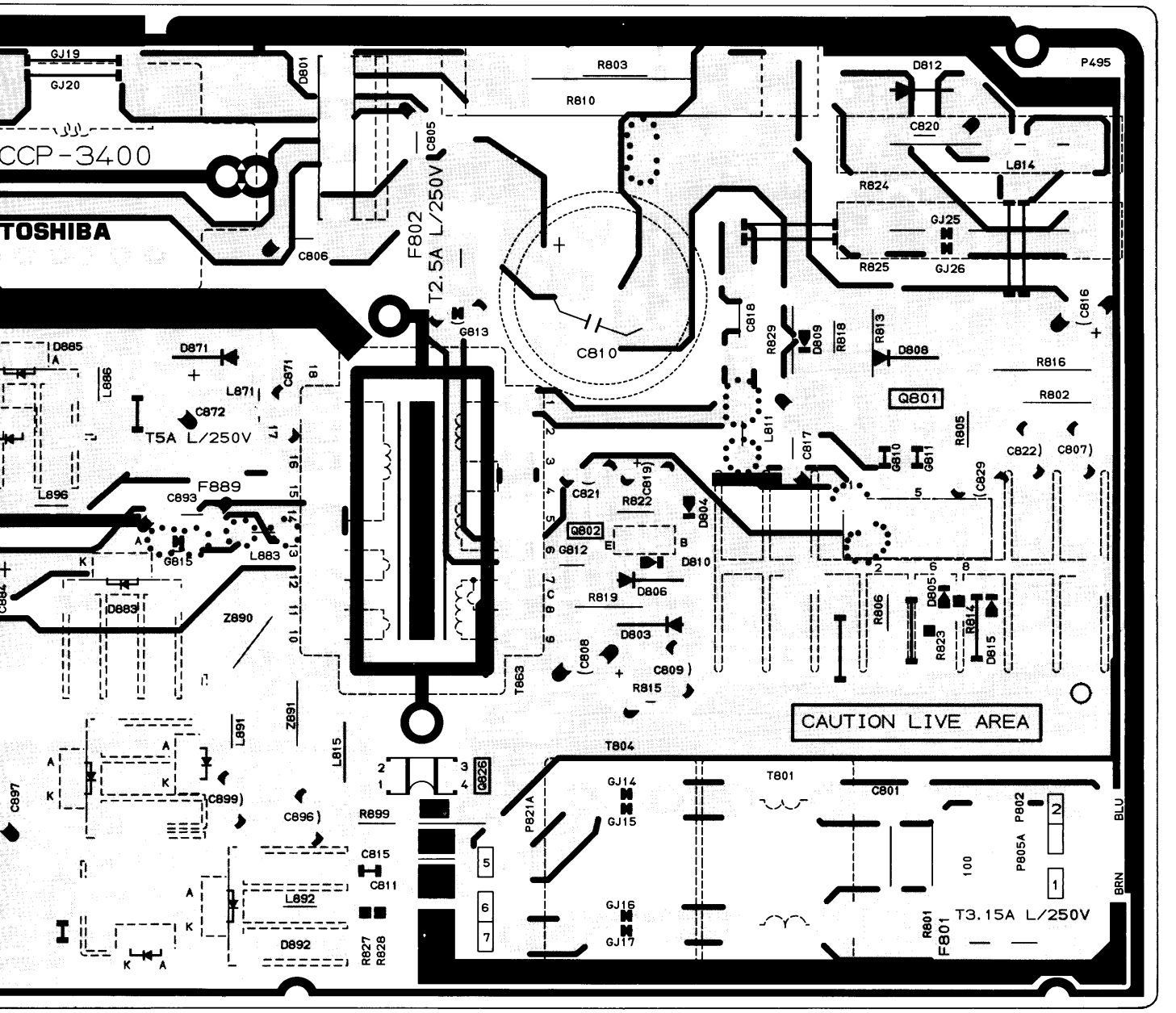
POWER BOARD PB83

BOTTOM (FOIL) SIDE



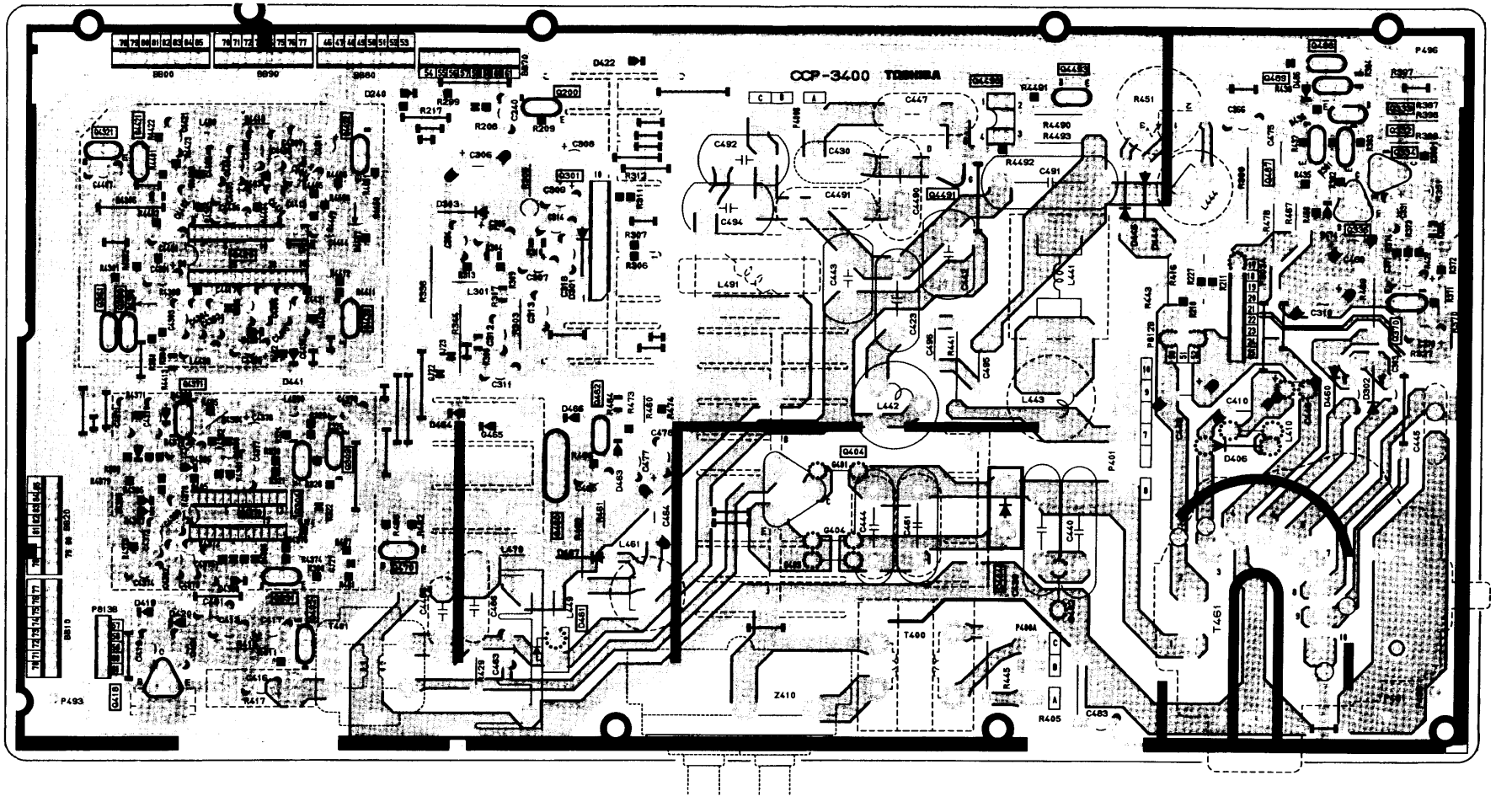
POWER BOARD PB8366X

BOTTOM (FOIL) SIDE



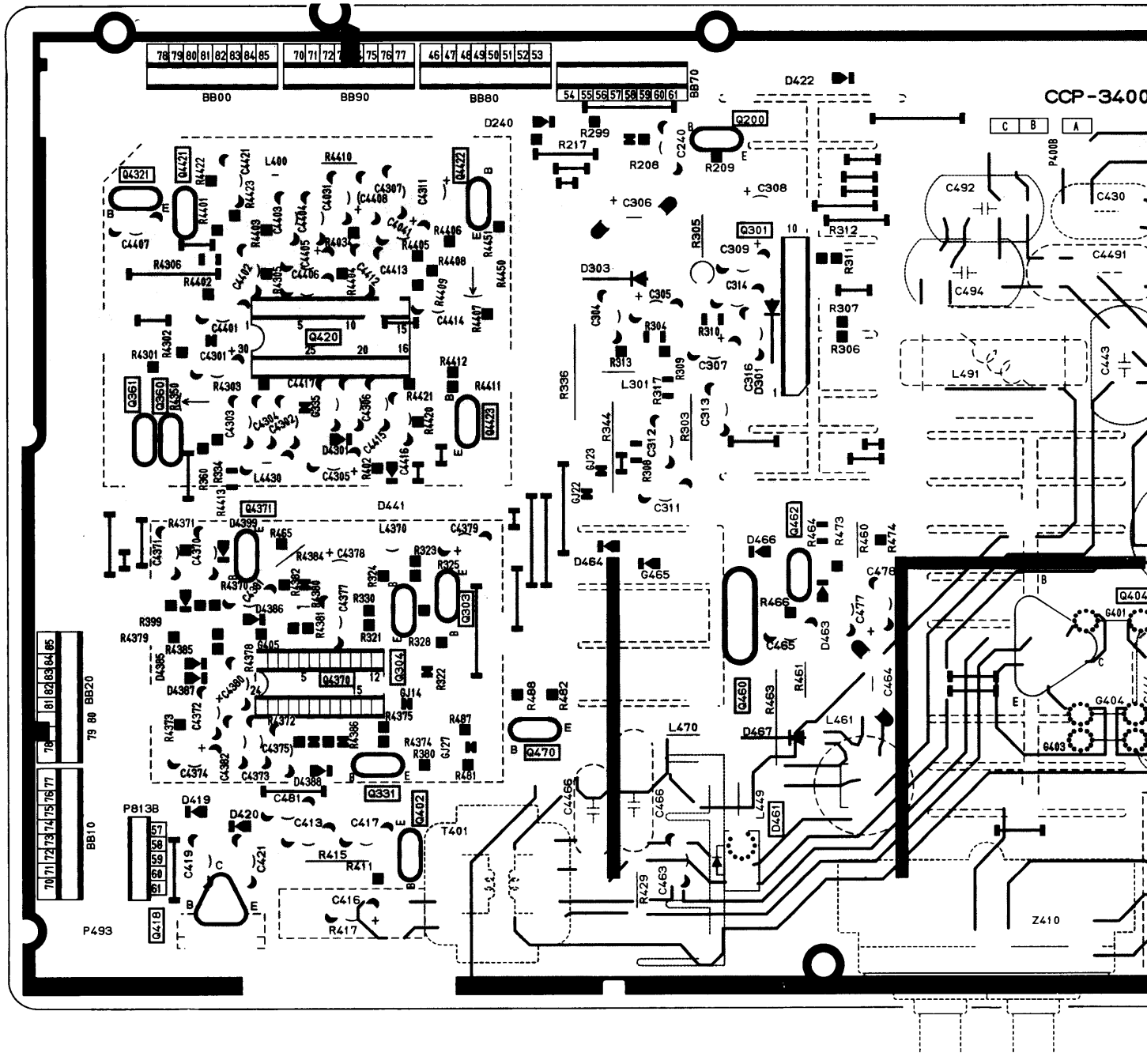
DEF BOARD PB7275H-1

BOTTOM (FOIL) SIDE



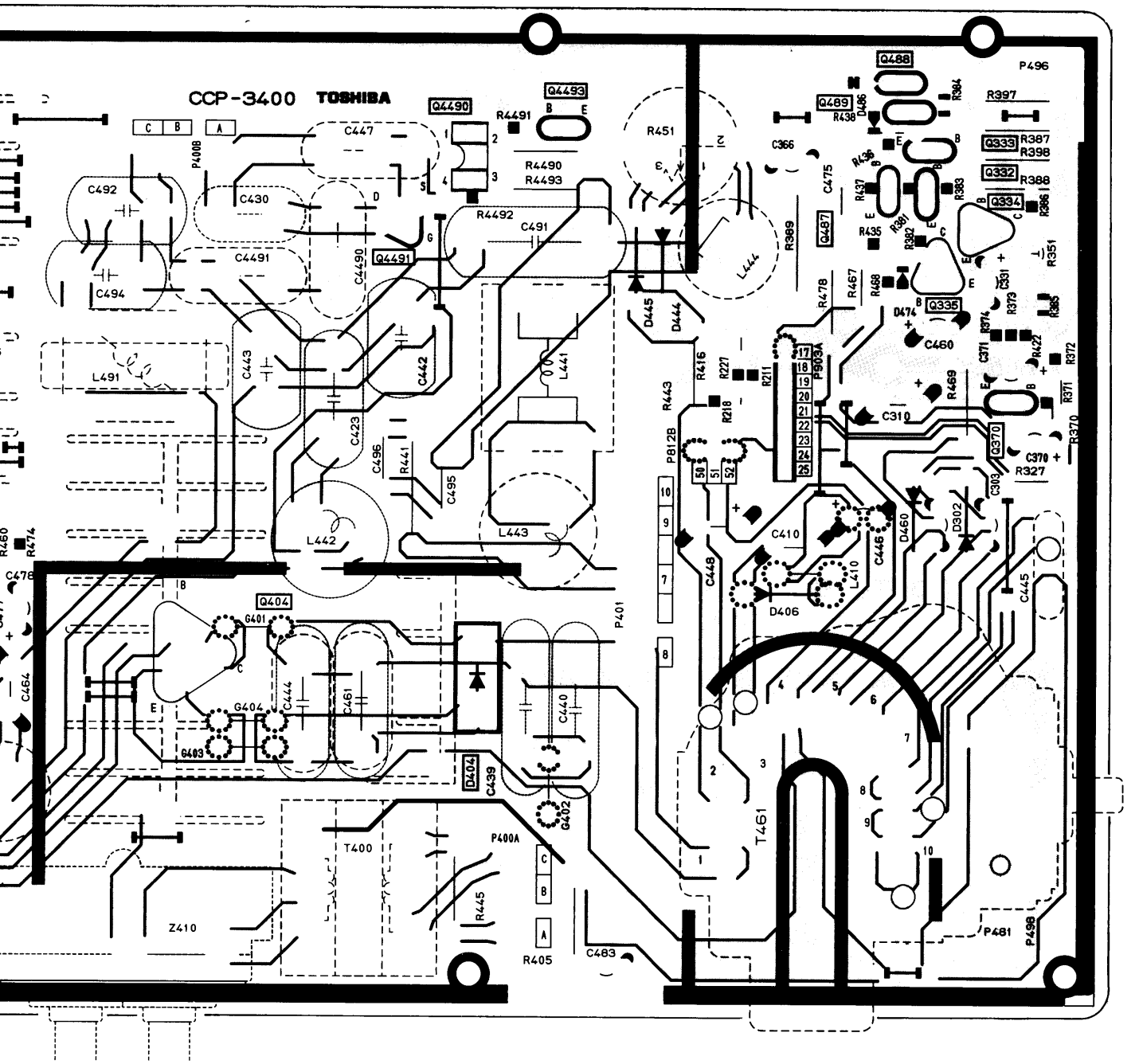
DEF BOARD PB7275H-1

BOTTOM (FOIL) SIDE



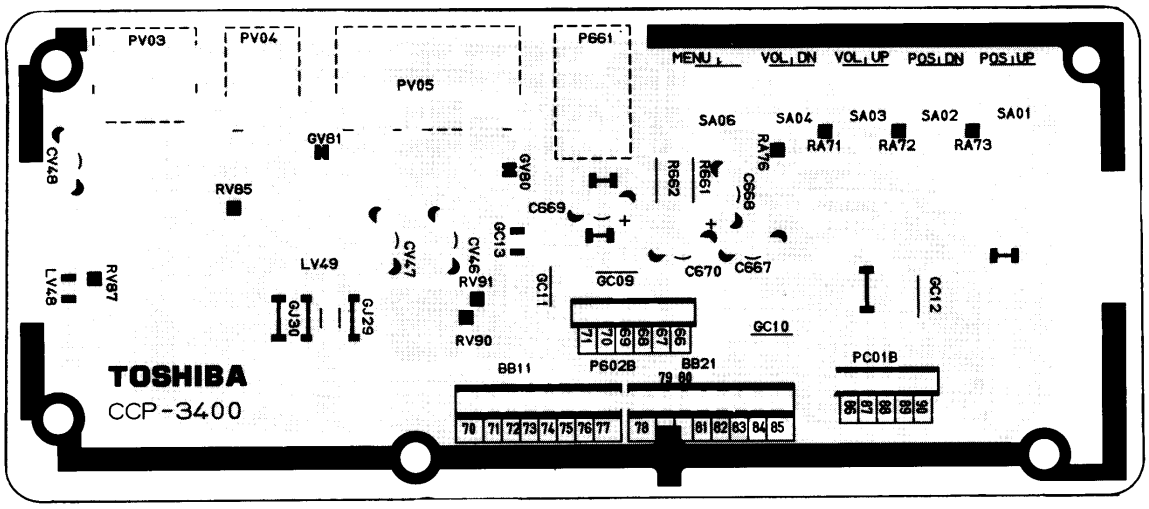
F BOARD PB7275H-1

BOTTOM (FOIL) SIDE



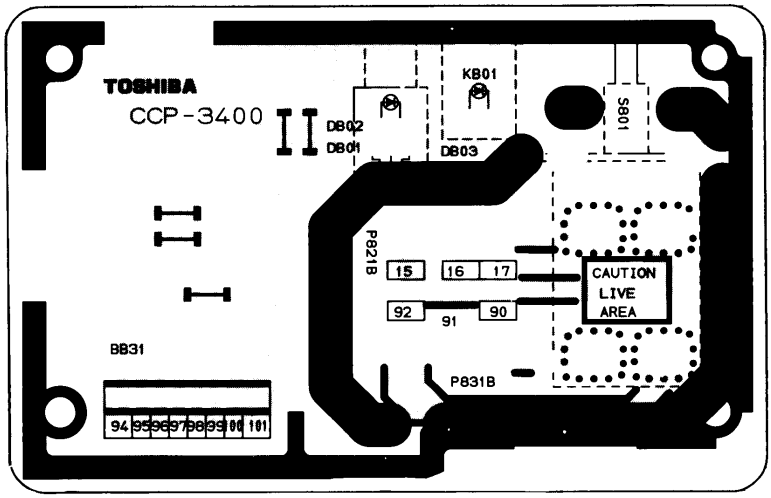
CONT-1 BOARD PB7275H-2

BOTTOM (FOIL) SIDE



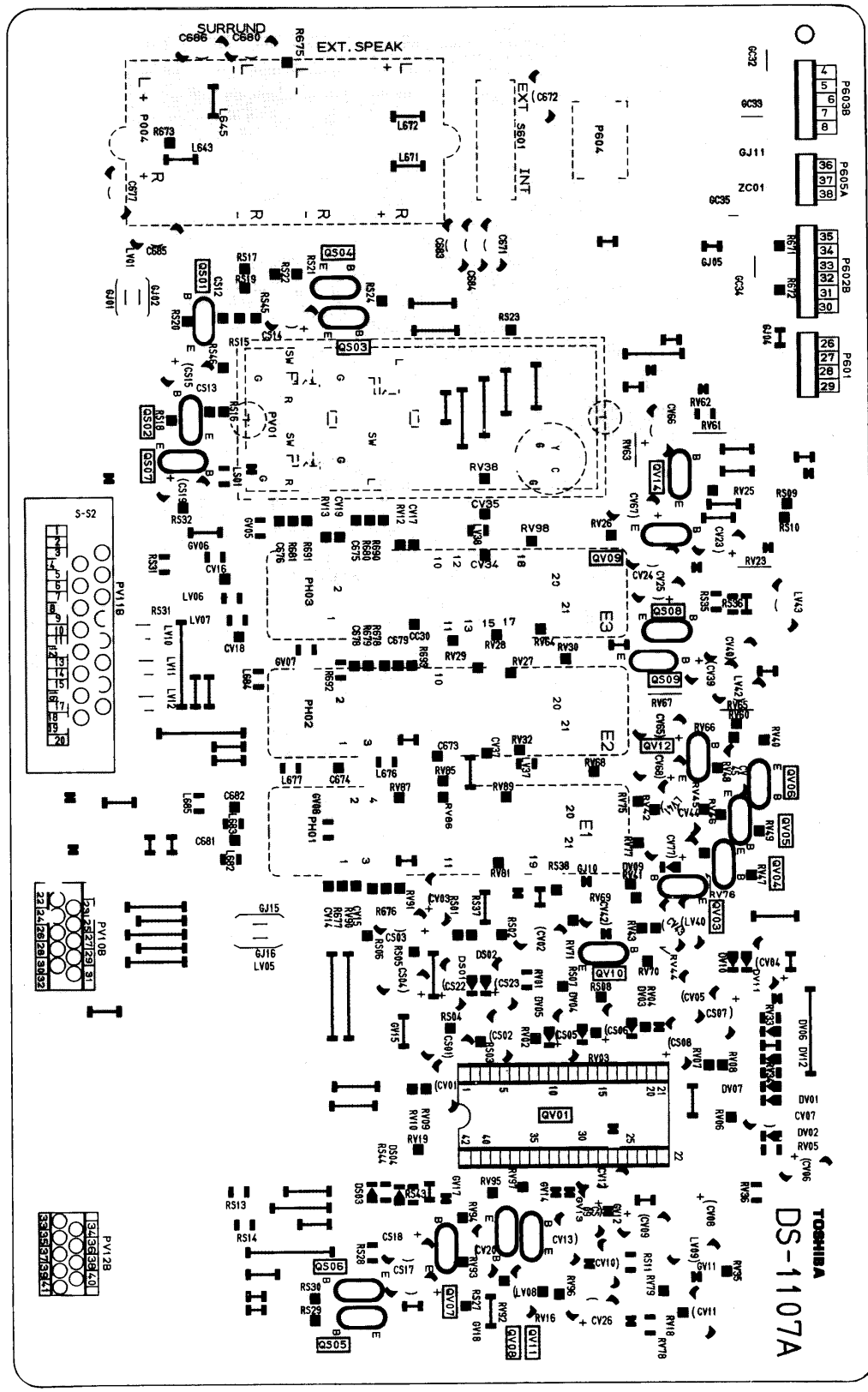
CONT-2 BOARD PB7275H-3

BOTTOM (FOIL) SIDE



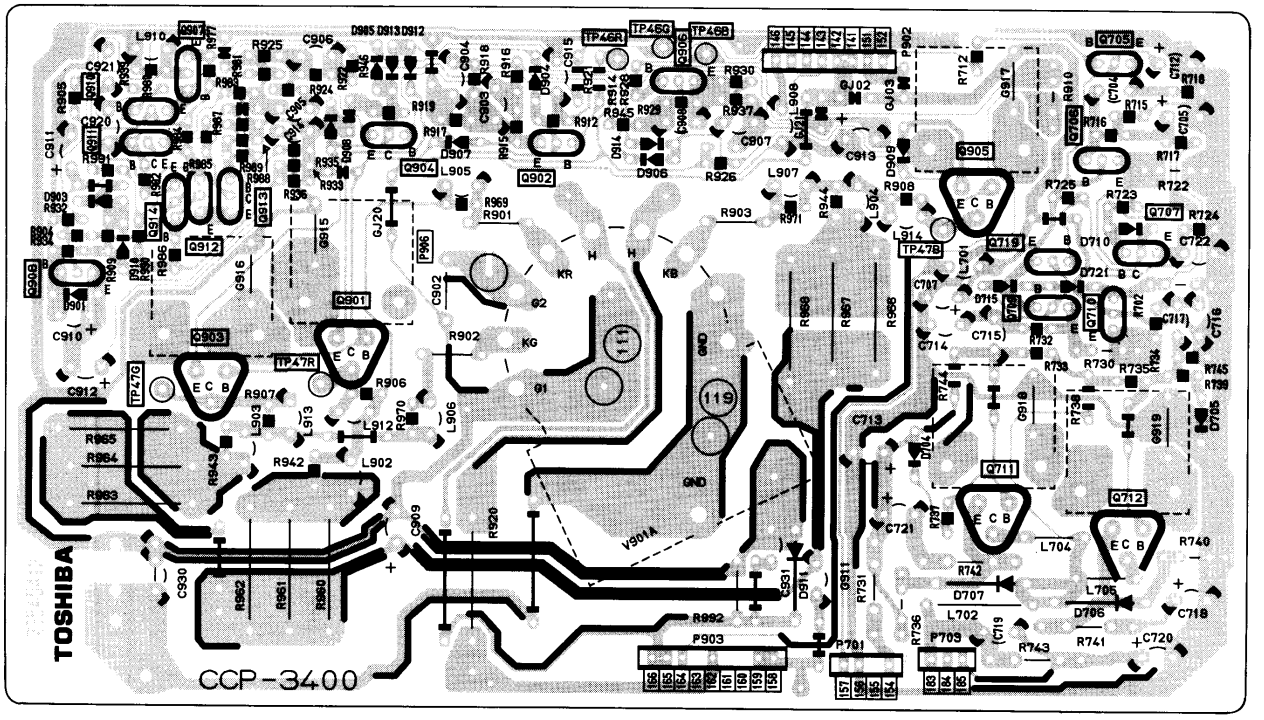
BACK TERMINAL/AV BOARD PB7276Y

BOTTOM (FOIL) SIDE



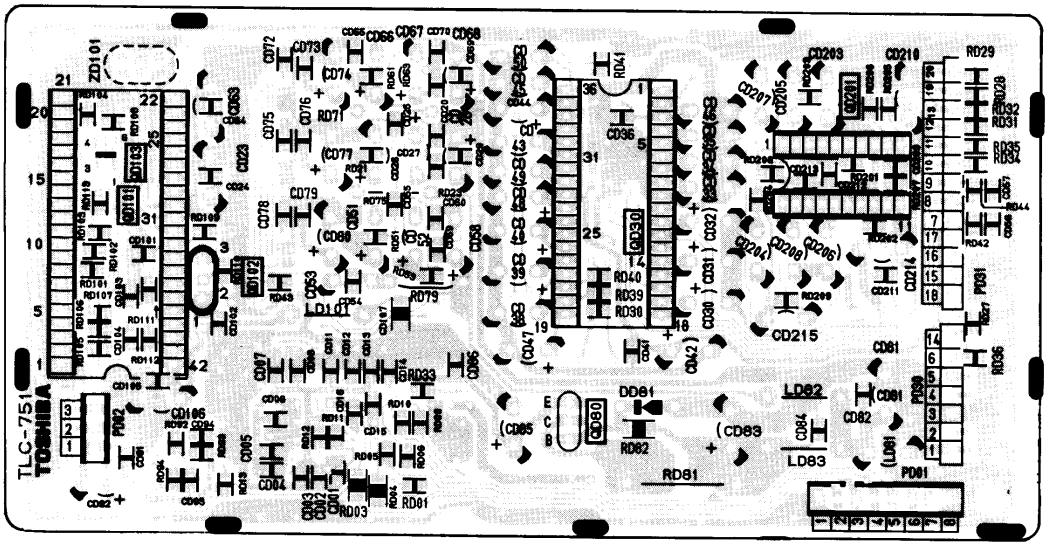
CRT DRIVE/DSM BOARD PB7466Y

BOTTOM (FOIL) SIDE



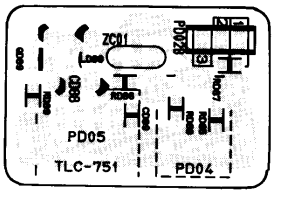
DOLBY BOARD PB8210Y-1

BOTTOM (FOIL) SIDE



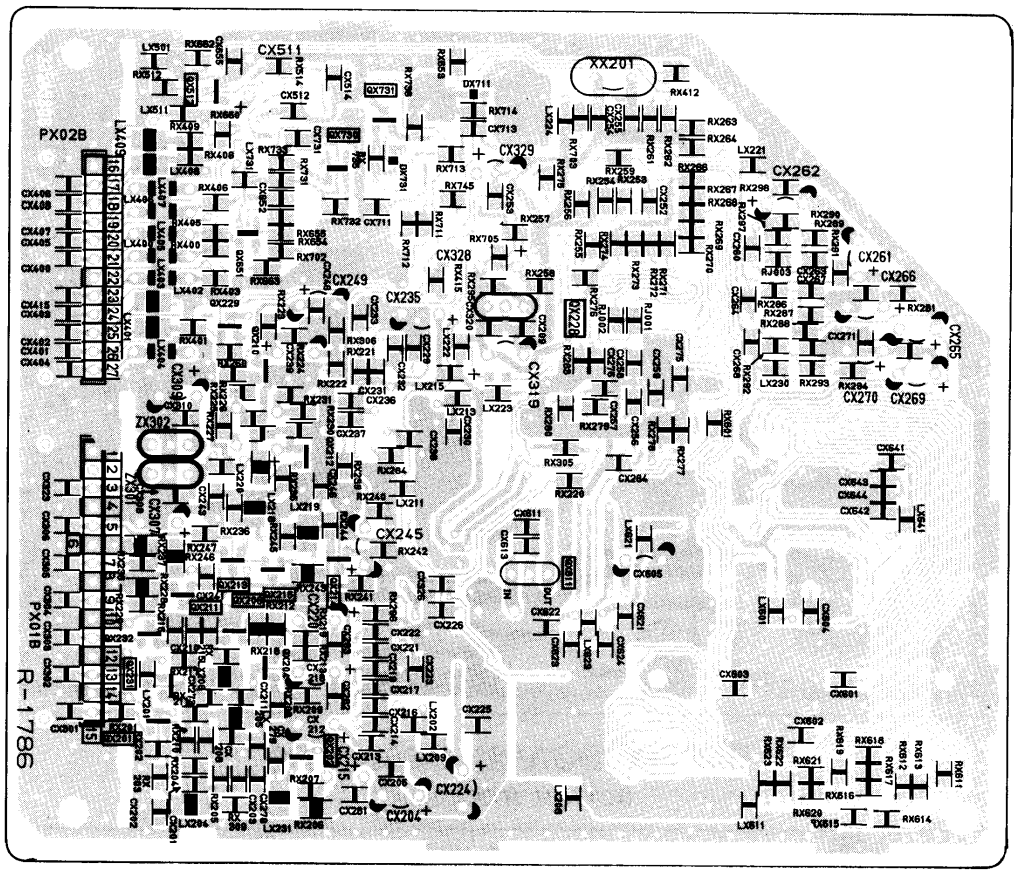
DIG-IN BOARD PB8210Y-2

BOTTOM (FOIL) SIDE



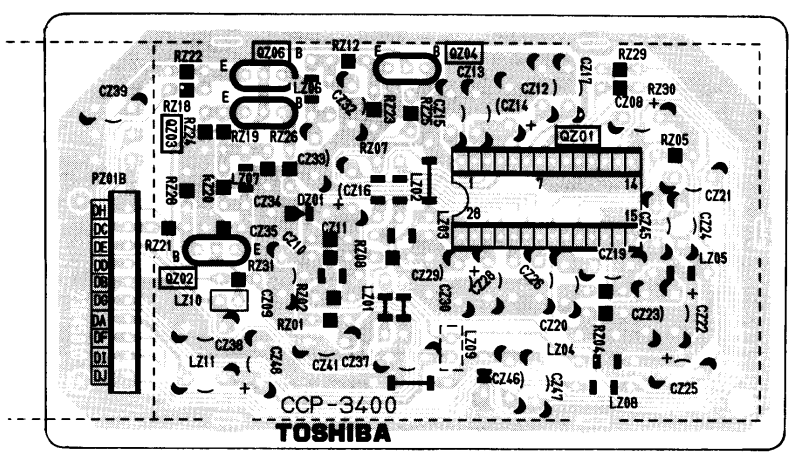
D-SCAN BOARD PB8351X

BOTTOM (FOIL) SIDE



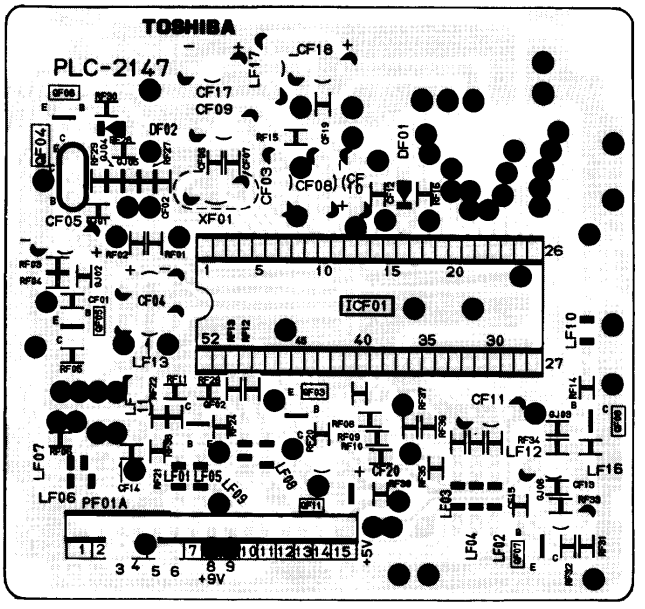
DIG-COMB BOARD PB8353X

BOTTOM (FOIL) SIDE



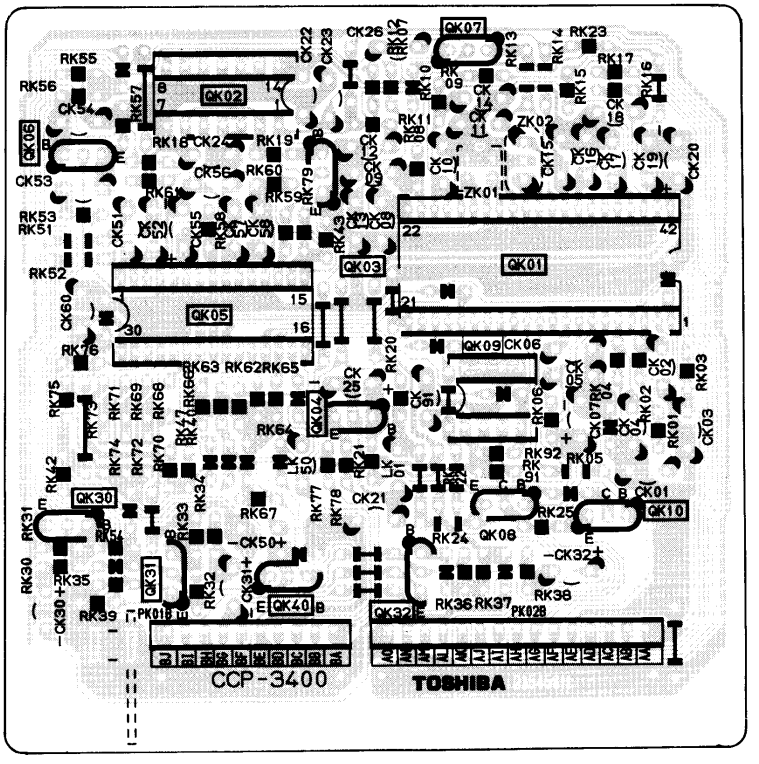
TEXT BOARD PB7928W

BOTTOM (FOIL) SIDE



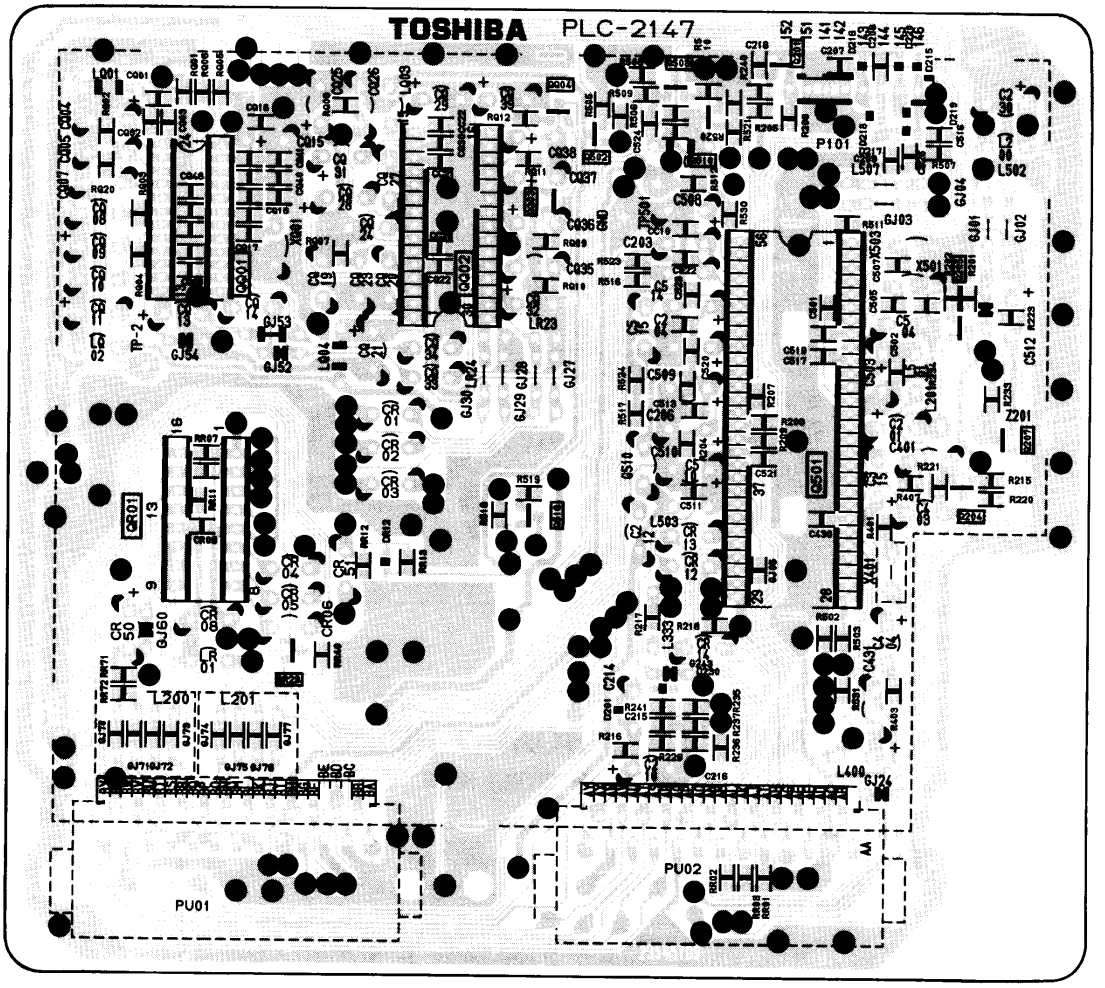
AUTO LIVE BOARD PB8354X

BOTTOM (FOIL) SIDE



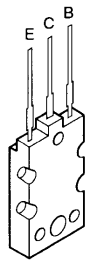
V/C/D BOARD PB8059

BOTTOM (FOIL) SIDE

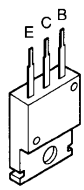


TERMINAL VIEW OF TRANSISTORS

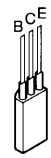
① 2SD2253
(old)
2SC5243



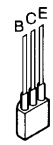
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



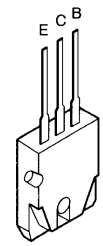
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



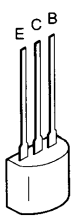
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



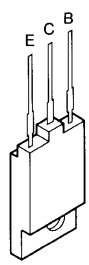
⑤ 2SA1788



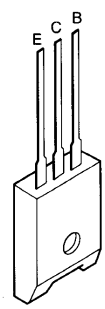
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



SCHEMATIC DIAGRAM MODEL : 28MW8DG (1/8)

030-9822

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OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a 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 **BRIGHTNESS** control is almost in maximum position. Set other controls for best picture.

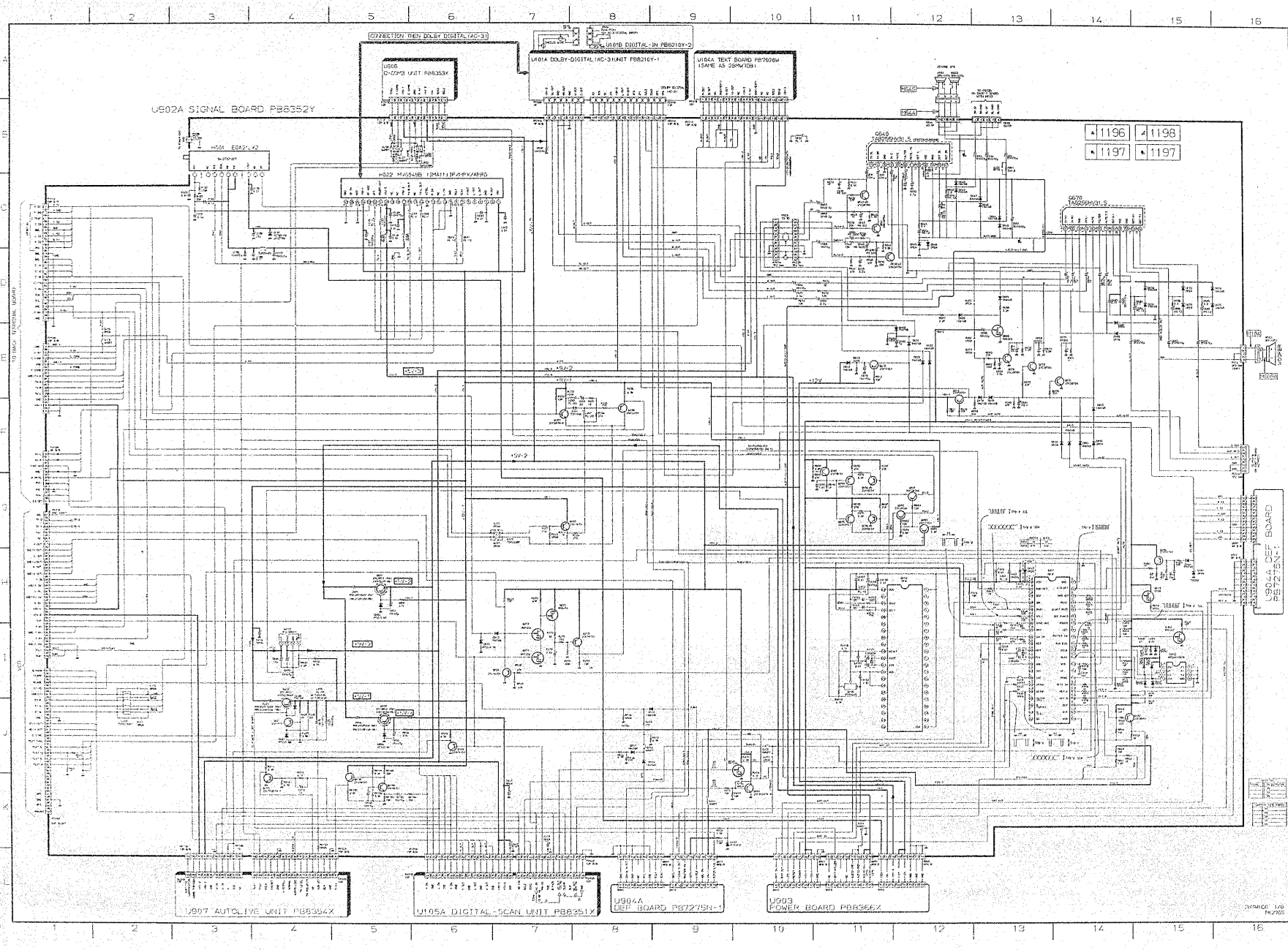
NOTES:

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



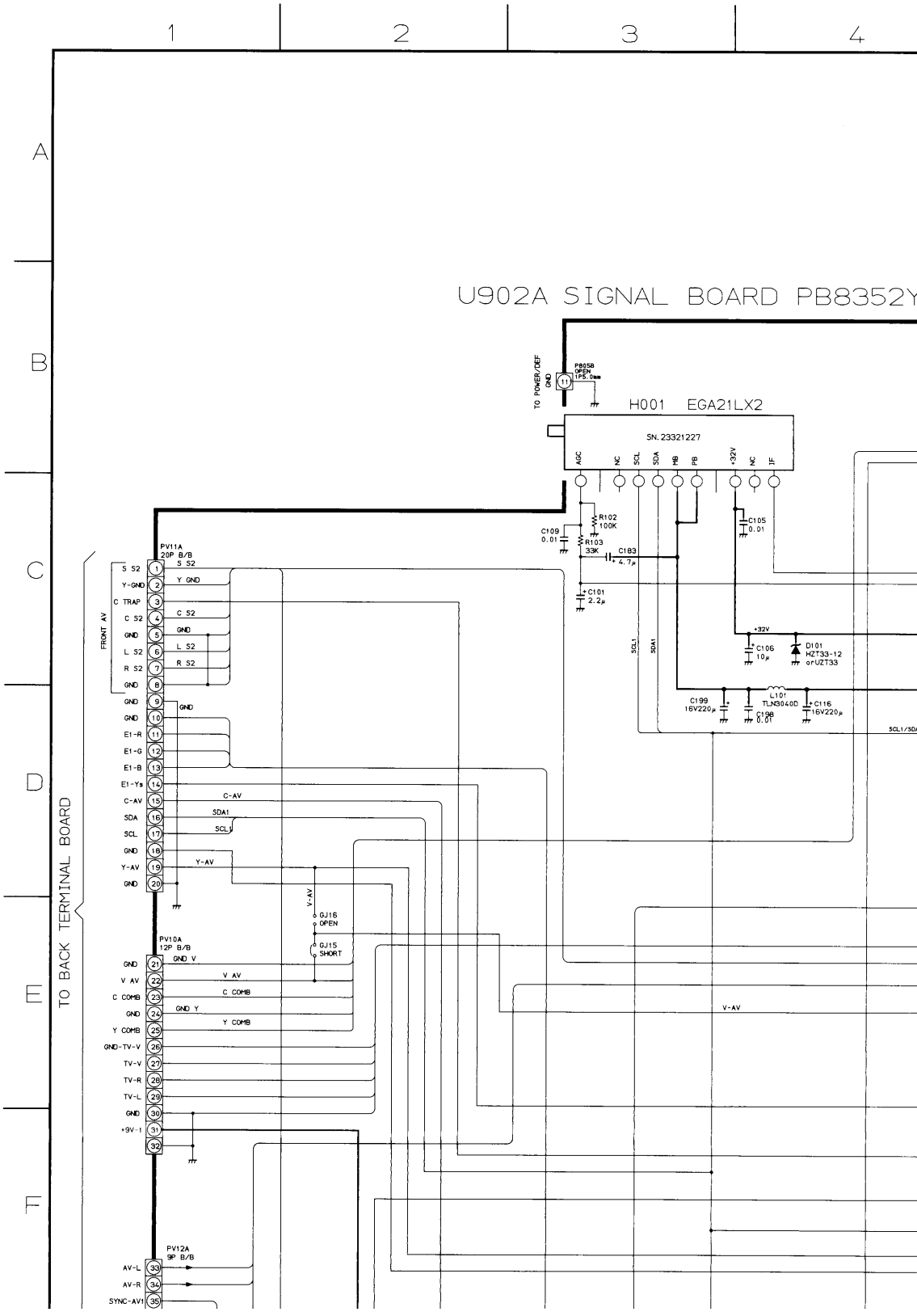
SCHEMATIC DIAGRAM MODEL : 28MW8DG (1/8)

030-9822

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OBSERVATION

1. Voltages rea
volts, colour
2. All waveforn
3. Waveforms
4. Make sure
BRIGHTNES
picture.

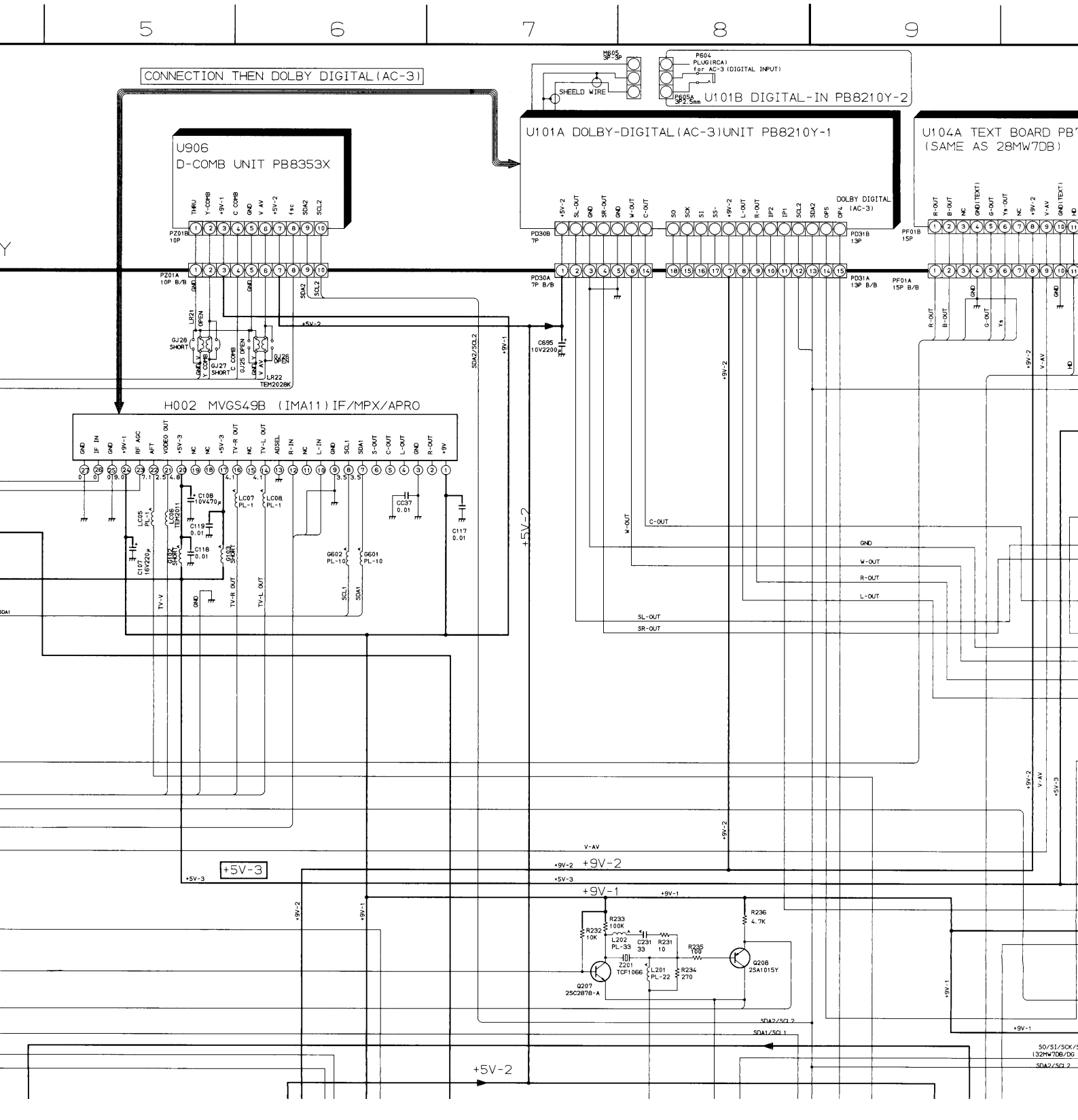


ON OF VOLTAGES AND WAVEFORMS

ead with VTVM from point shown to chassis ground, line voltage 220
ur bar signal. Voltages reading may vary ±20%.
rms are taken using a wide band oscilloscope and a low capacity probe.
s are taken using a standard colour bar signal.
that CONTRAST and COLOUR controls are in mid position and
SS control is almost in maximum position. Set other controls for best

NOTES:

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

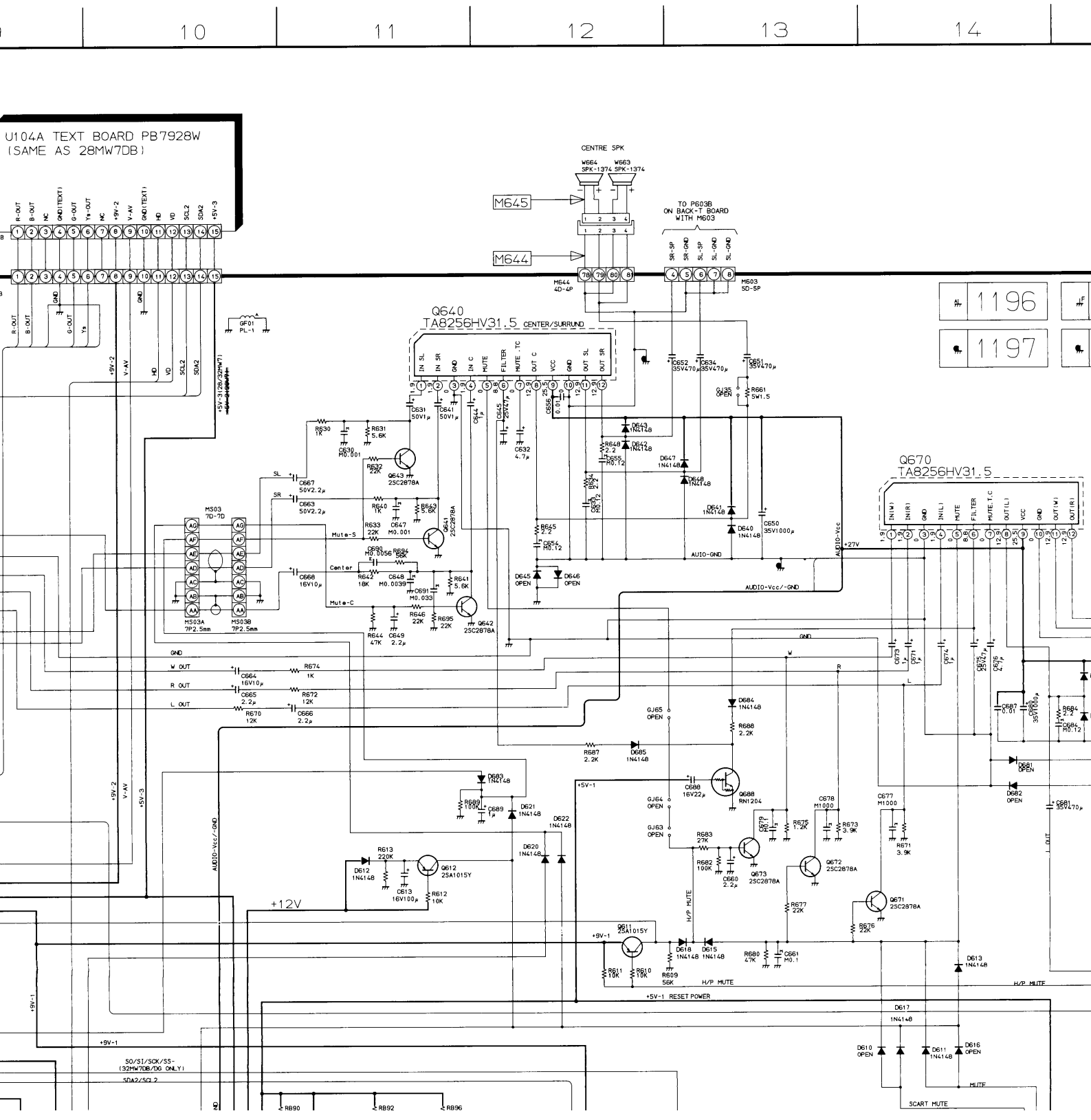


al transformer is shown in this schematic dia-
arated from the circuit.
without notice.

EXPRESSION

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

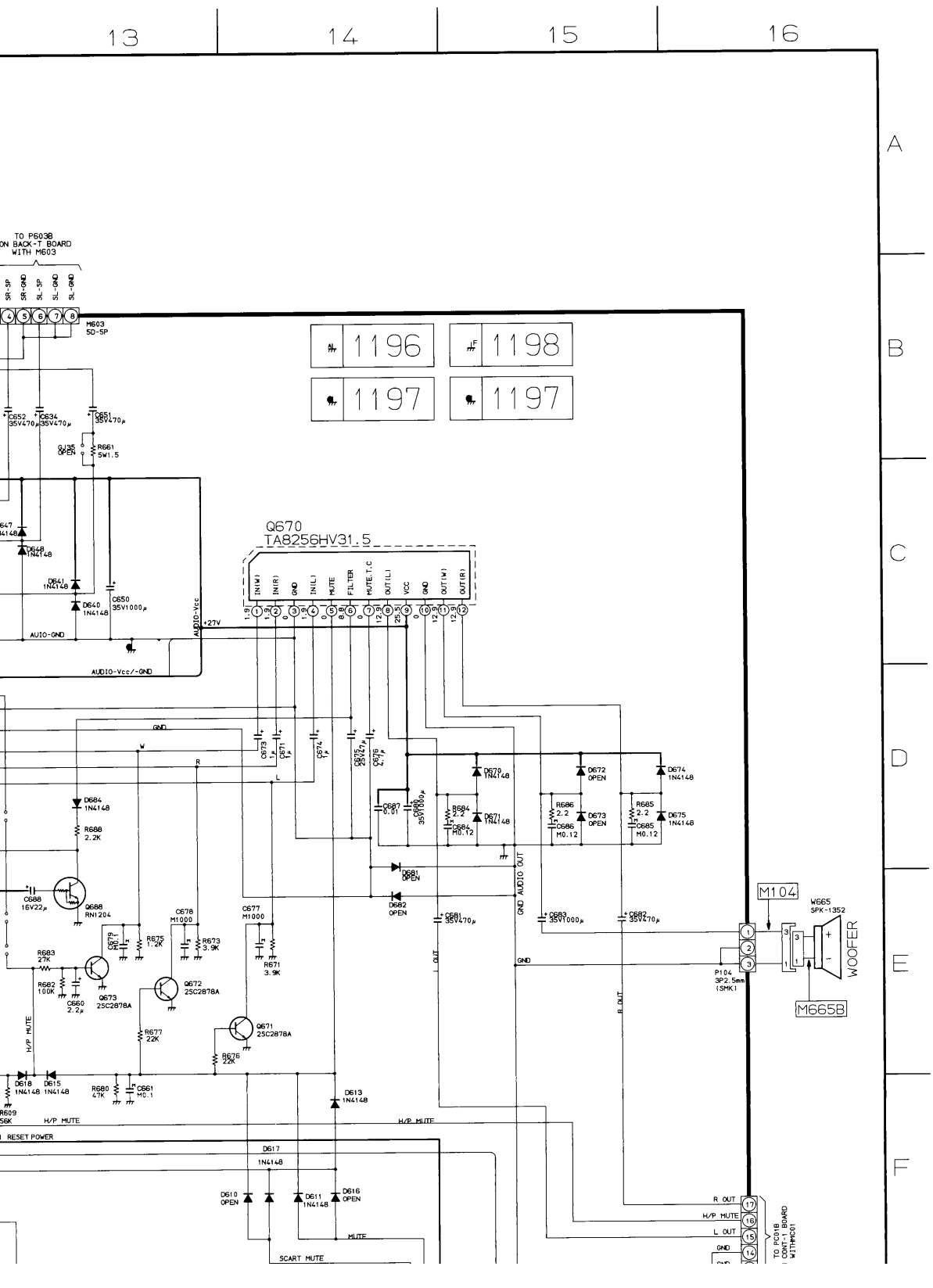


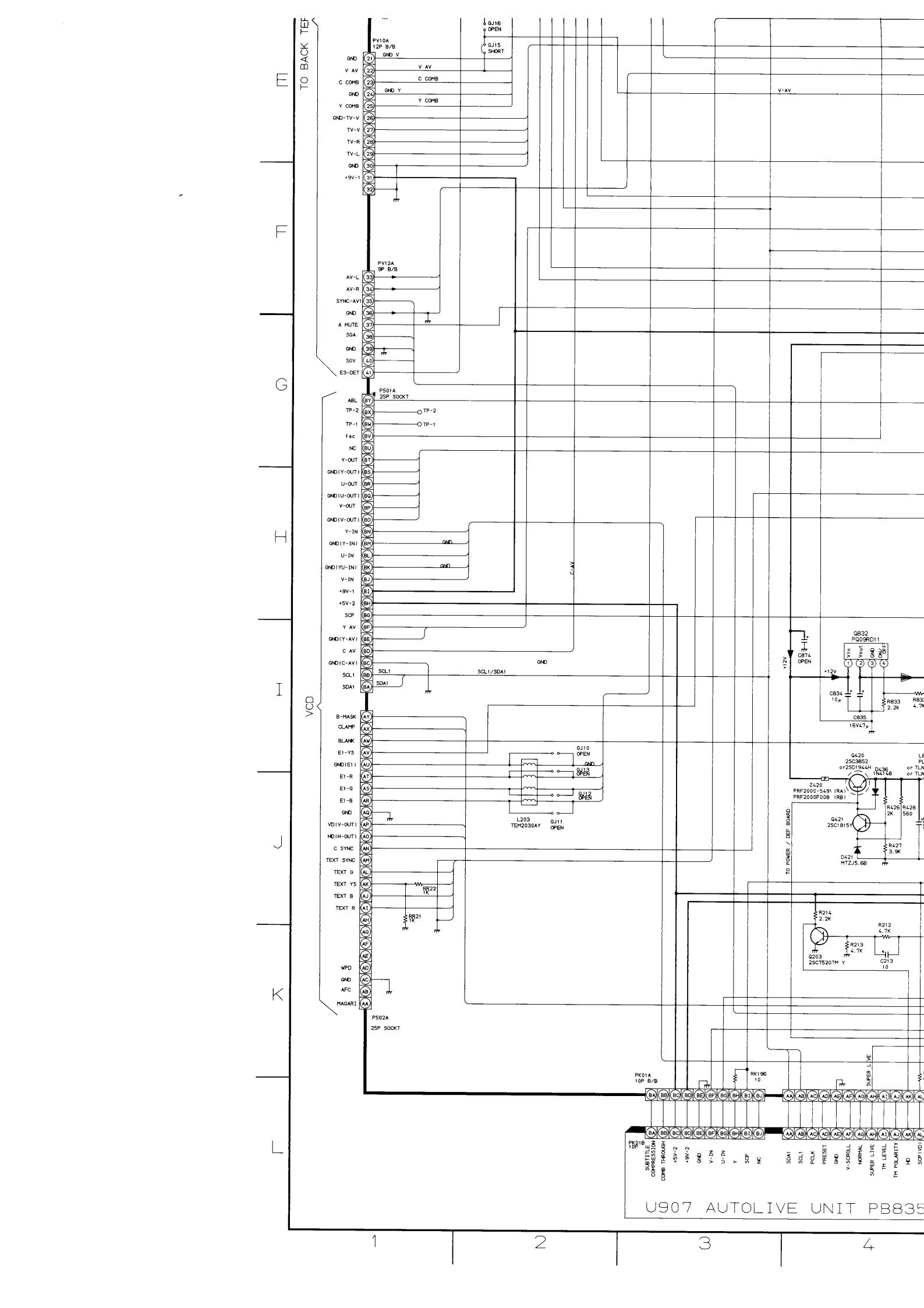
R, CAPACITOR and INDUCTOR

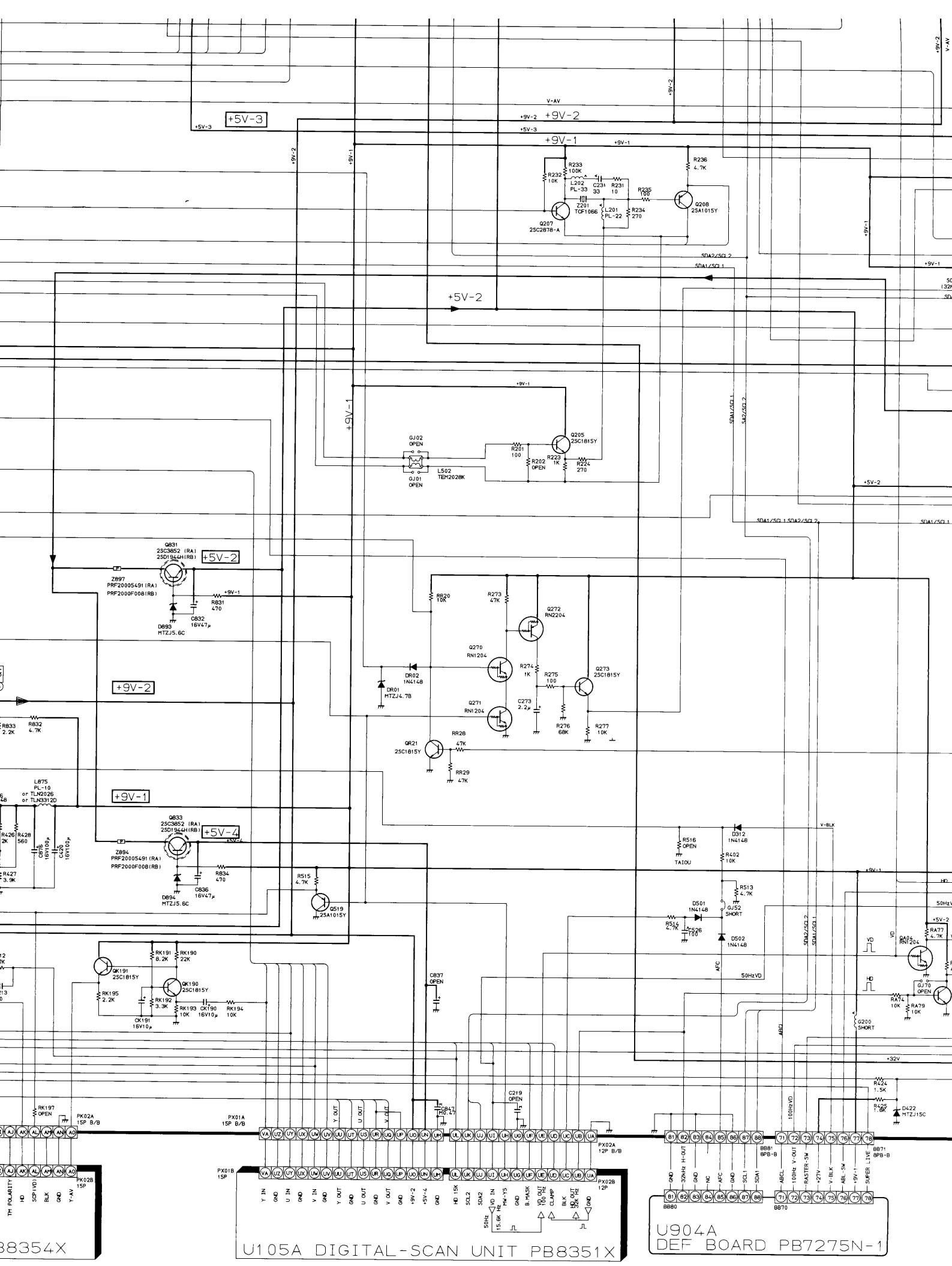
ohm, k=1,000, M=1,000,000

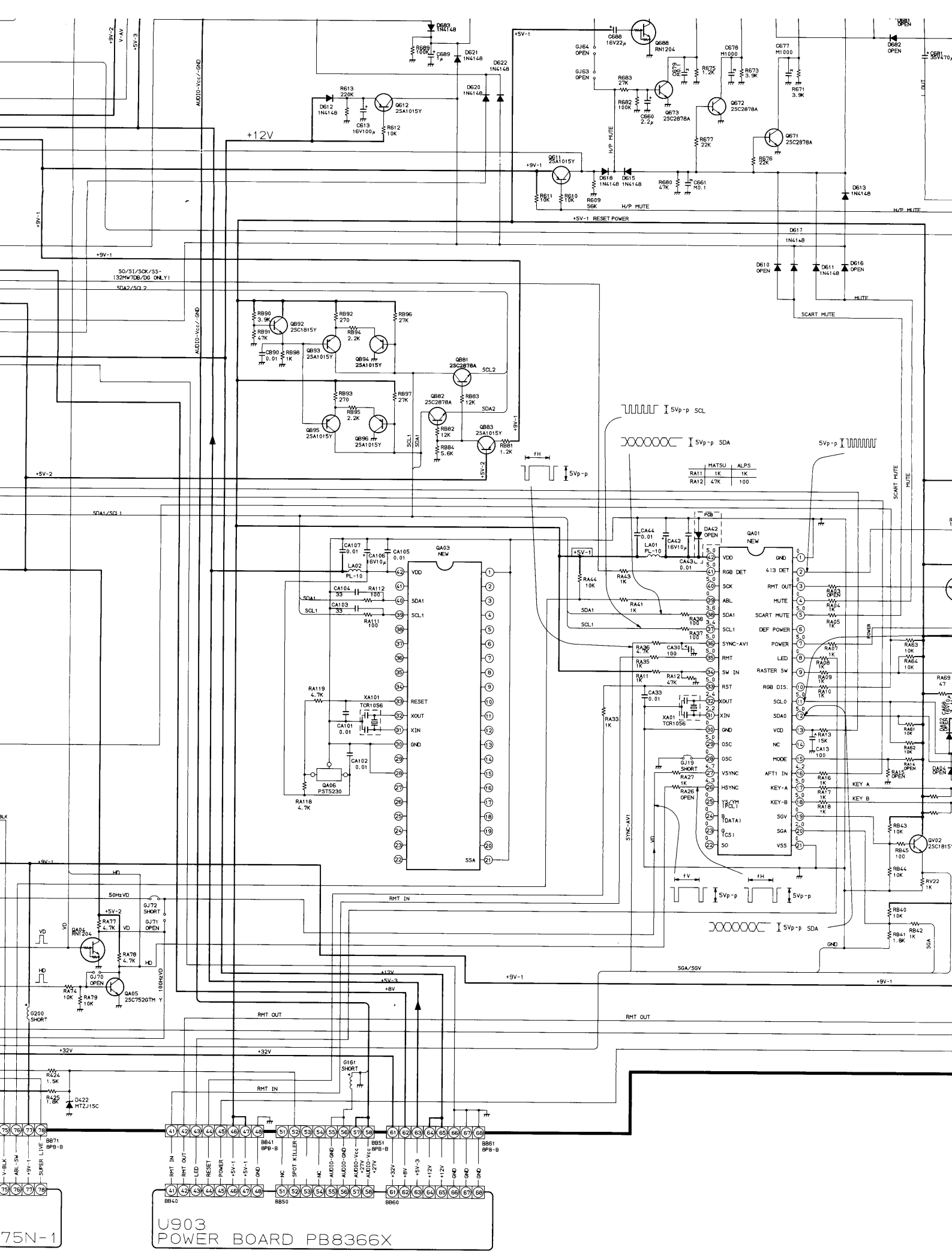
ed in schematic, all capacitor values less than 1 are expres-
es more than 1 in pF.

ed in schematic, all inductor values more than 1 are expres-
ues less than 1 in H.

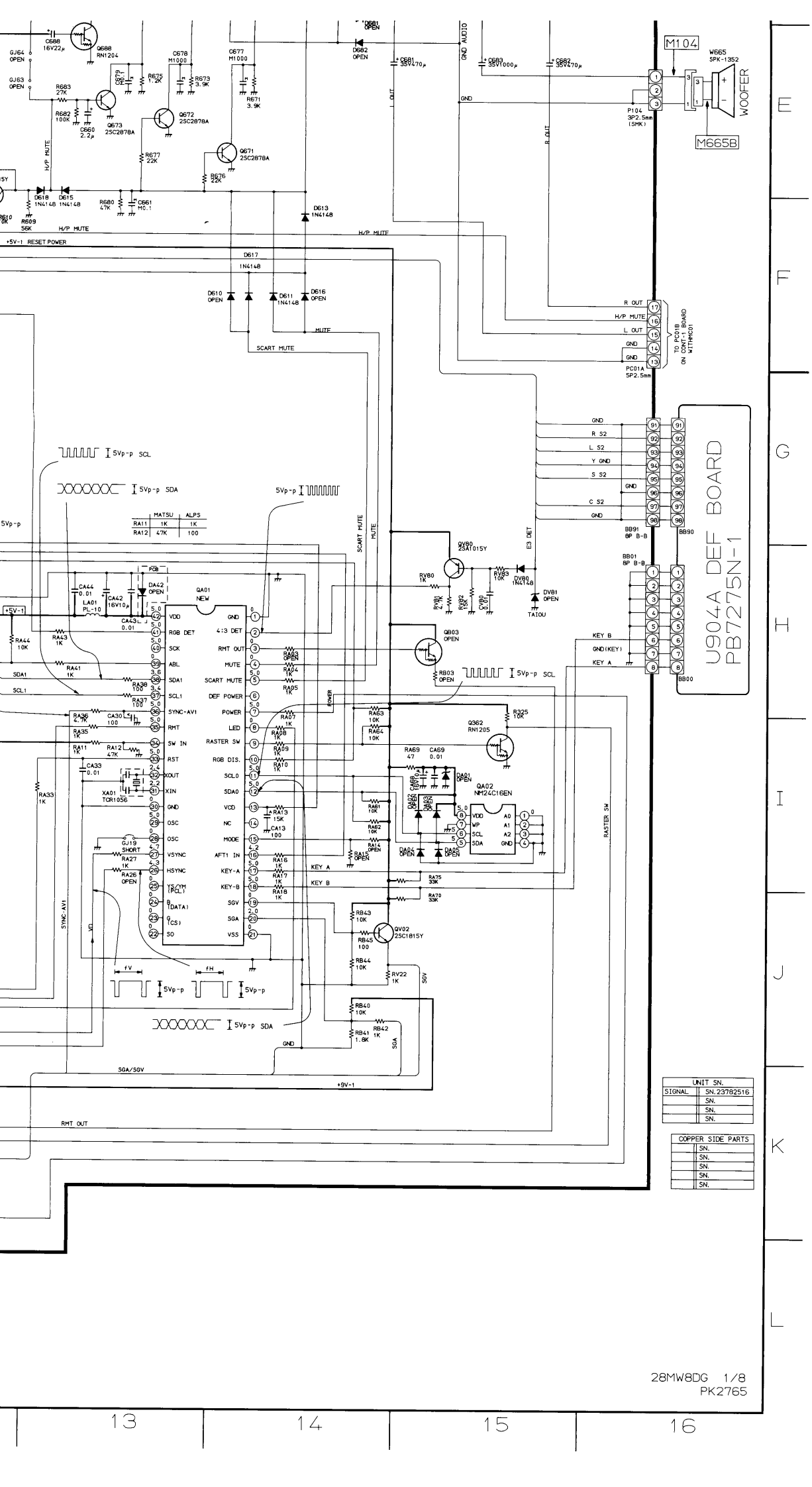



TO BACK TER
PV10A
12P B/B
GND
V AV
C COMB
GND
Y COMB
GND-TV-V
TV-V
TV-R
TV-L
GND
+9V-1
GJ16
OPEN
GJ15
SHORT
V-AV
PV12A
9P B/B
AV-L
AV-R
SYNC-AV1
GND
A MUTE
SGA
GND
SGV
E3-DET
P501A
25P SOCKT
ABL
TP-2
TP-1
fsc
NC
Y-OUT
GND(Y-OUT)
U-OUT
GND(U-OUT)
V-OUT
GND(V-OUT)
Y-IN
GND(Y-IN)
U-IN
GND(YU-IN)
V-IN
+9V-1
+5V-2
SCP
Y AV
GND(Y-AV)
C AV
GND(C-AV)
SCL1
SDA1
C-AV
SCL1/SDA1
VCD
B-MASK
CLAMP
BLANK
E1-YS
GND(E1)
E1-R
E1-G
E1-B
GND
VD(V-OUT)
HD(H-OUT)
C SYNC
TEXT SYNC
TEXT G
TEXT YS
TEXT B
TEXT R
RR22
1K
RR21
1K
WPD
GND
AFC
MAGARI
P502A
25P SOCKT
GJ10
OPEN
GJ13
OPEN
GJ12
OPEN
GJ11
OPEN
L203
TEM2030AY
Q832
PQ09RD11
Vin
Vout
GND
ON/OFF
C874
OPEN
+12V
C834
10μ
C835
16V47μ
R833
2.2K
Q420
2SC3852
or2SD1944H
D436
1N4148
Z420
PRF2000-5491 (RA)
PRF2000F008 (RB)
R426
2K
R428
560
Q421
2SC1815Y
R427
3.9K
D421
MTZJ5.6B
TO POWER / DEF BOARD
R214
2.2K
R212
4.7K
R213
4.7K
Q203
2SC752GTM Y
C213
10
PK01A
10P B/B
RK196
10
SUPER LIVE
PK01B
10P
SUBTITLE
COMPRESSION
COMB THROUGH
+5V-2
+9V-2
GND
V-IN
U-IN
Y
SCP
NC
SDA1
SCL1
PCLK
PRESET
GND
V-SCROLL
NORMAL
SUPER LIVE
TH LEVEL
TH POLARITY
HD
SCP(VD)
U907 AUTOLIVE UNIT PB835
1
2
3
4


+5V-3
+9V-2
+9V-1
V-AV
R233 100K
R232 10K
L202 PL-33
C231 33
R231 10
R235 100
R236 4.7K
Z201 TCF1066
L201 PL-22
R234 270
Q207 2SC2878-A
Q208 2SA1015Y
SDA2/SCL2
SDA1/SCL1
+5V-2
GJ02 OPEN
GJ01 OPEN
L502 TEM2028K
R201 100
R202 OPEN
R223 1K
R224 270
Q205 2SC1815Y
Q831 2SC3852 (RA) 2SD1944H(RB)
Z897 PRF20005491 (RA) PRF2000F008(RB)
R831 470
C832 16V47μ
D893 MTZJ5.6C
R820 10K
R273 47K
Q272 RN2204
Q270 RN1204
DR02 1N4148
DR01 MTZJ4.7B
R274 1K
R275 100
Q273 2SC1815Y
Q271 RN1204
C273 2.2μ
R276 68K
R277 10K
QR21 2SC1815Y
RR28 47K
RR29 47K
R832 4.7K
L875 PL-10 or TLN2026 or TLN3312D
Q833 2SC3852 (RA) 2SD1944H(RB)
Z894 PRF20005491 (RA) PRF2000F008(RB)
R834 470
C836 16V47μ
D894 MTZJ5.6C
R515 4.7K
Q519 2SA1015Y
R516 OPEN
TAIOU
D312 1N4148
R402 10K
R513 4.7K
GJ52 SHORT
D501 1N4148
D502 1N4148
C526 100
RA77 4.7K
RA04 RN1204
GJ70 OPEN
RA74 10K
RA79 10K
G200 SHORT
V-BLK
HD
VD
AFC
50HzVD
ARD
+32V
QK191 2SC1815Y
QK190 2SC1815Y
RK191 8.2K
RK190 22K
RK195 2.2K
RK192 3.3K
RK193 10K
CK190 16V10μ
RK194 10K
CK191 16V10μ
C837 OPEN
RK197 OPEN
C219 OPEN
C847 4.7μ
R424 1.5K
R425 1.8K
D422 MTZJ15C
PK02A 15P B/B
PX01A 15P B/B
PX02A 12P B/B
PK02B 15P
PX01B 15P
PX02B 12P
BB81 8PB-B
BB71 8PB-B
BB80
BB70
TM POLARITY
HD
SCP(VD)
BLK
GND
Y-AV
Y IN
U IN
V IN
Y OUT
U OUT
V OUT
+9V-2
+5V-4
HD 15K
SCL2
SDA2
VD IN
FM-YS
B.MASK
VD OUT
CLAMP
BLK
50Hz
15.6K Hz
32K Hz
GND
32kHz H-OUT
NC
AFC
SCL1
SDA1
100HzVD
ABCL
100Hz V-OUT
RASTER-SW
+27V
V-BLK
ABL-SW
+9V-1
SUPER LIVE
U904A
DEF BOARD PB7275N-1
U105A DIGITAL-SCAN UNIT PB8351X
8354X



9	10	11	12	13	14


U904A DEF BOARD
PB7275N-1
M104
W665
SPK-1352
WOOFER
M665B
P104
3P2.5mm
(SMK)
PC01A
5P2.5mm
TO PCV1B
ON CONT-1 BOARD
WITHHC01
BB91
8P B-B
BB90
BB01
8P B-B
BB00
QA01
NEW
QA02
NM24C16EN
XA01
TCR1056
QV80
2SA1015Y
QV02
2SC1815Y
Q362
RN1205
Q688
RN1204
Q672
2SC2878A
Q673
2SC2878A
Q671
2SC2878A
QB03
OPEN
D613
1N4148
D617
1N4148
D610
OPEN
D611
1N4148
D616
OPEN
D618
1N4148
D615
1N4148
D681
OPEN
D682
OPEN
DV80
1N4148
DV81
OPEN
TA10U
DA01
OPEN
DA02
OPEN
DA04
OPEN
DA05
OPEN
GND AUDIO
L OUT
R OUT
GND
H/P MUTE
+5V-1 RESET POWER
MUTE
SCART MUTE
E3 DET
POWER
RASTER SW
SYNC-AV1
RMT OUT
SGA/SGV
+9V-1
5Vp-p SCL
5Vp-p SDA
5Vp-p
fV
fH
SGV
SGA
KEY A
KEY B
R S2
L S2
Y GND
S S2
C S2
MATSU
ALPS
UNIT SN.
SIGNAL
SN.23782516
COPPER SIDE PARTS
28MW8DG 1/8
PK2765

SCHEMATIC DIAGRAM MODEL : 28MW8DG (2/8)

030-9822

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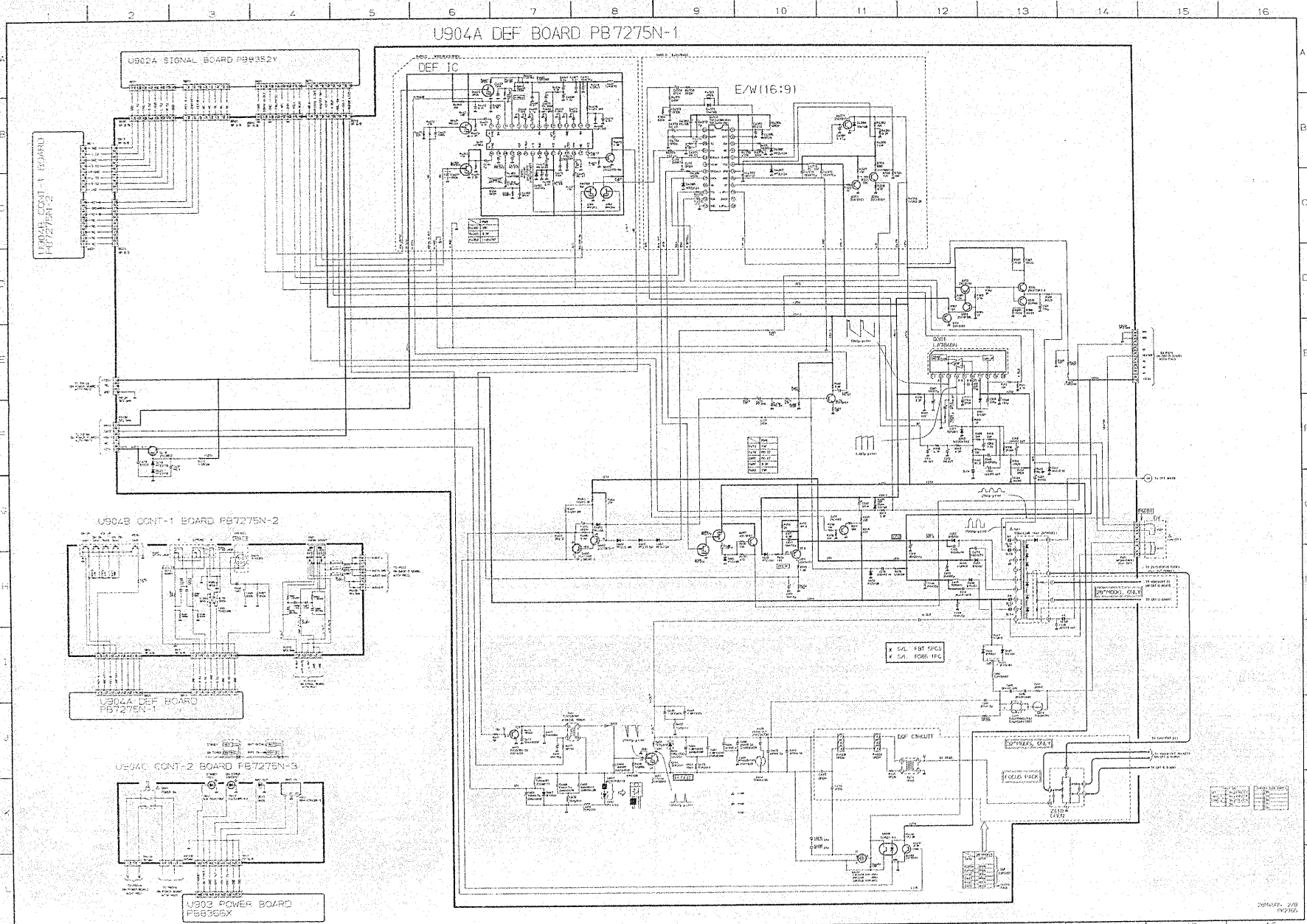
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2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.



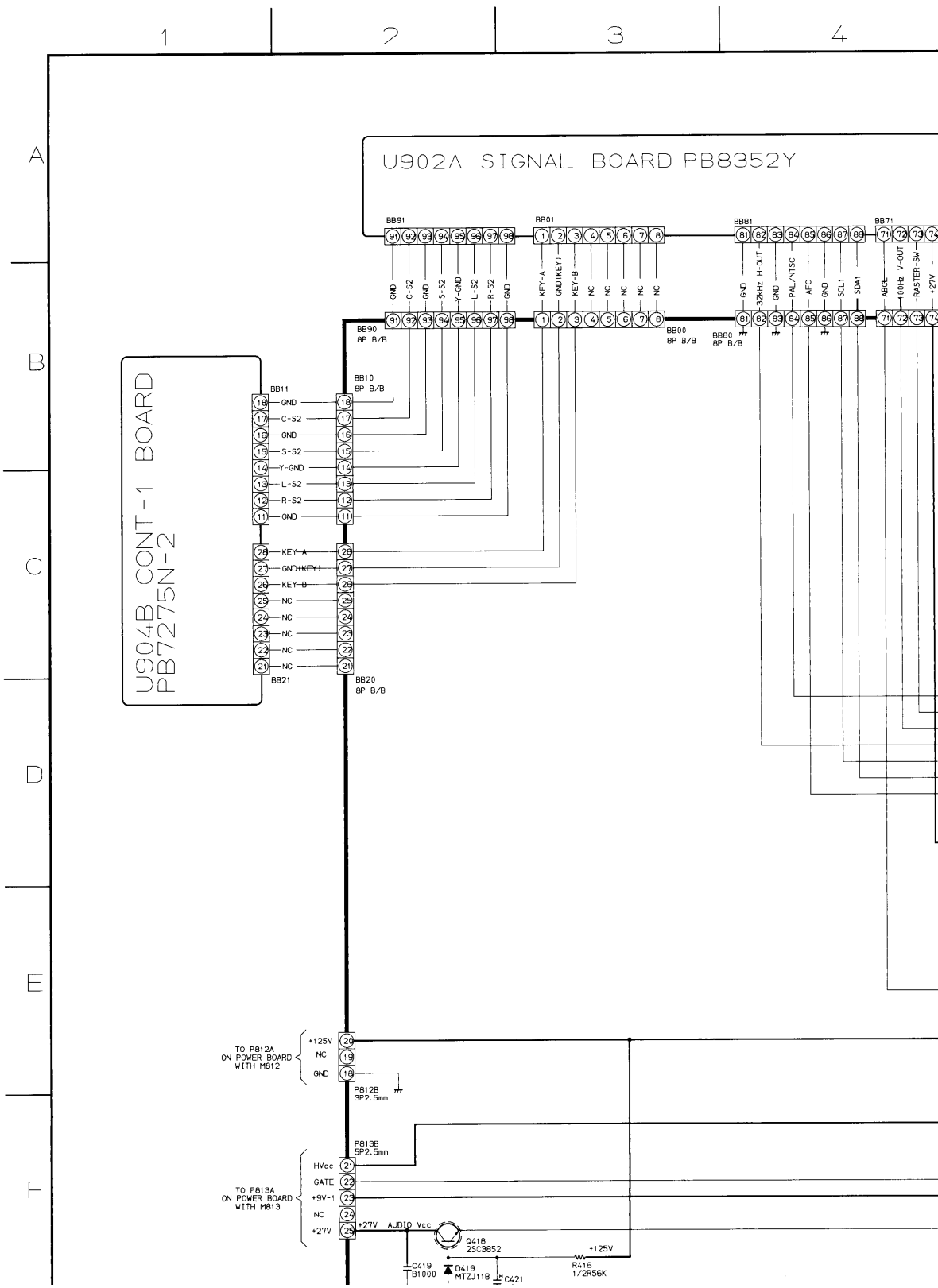
SCHEMATIC DIAGRAM MODEL : 28MW8DG (2/8)

030-9822

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

1. Voltages read wit volts, colour bar
2. All waveforms are
3. Waveforms are ta
4. Make sure that BRIGHTNESS co picture.

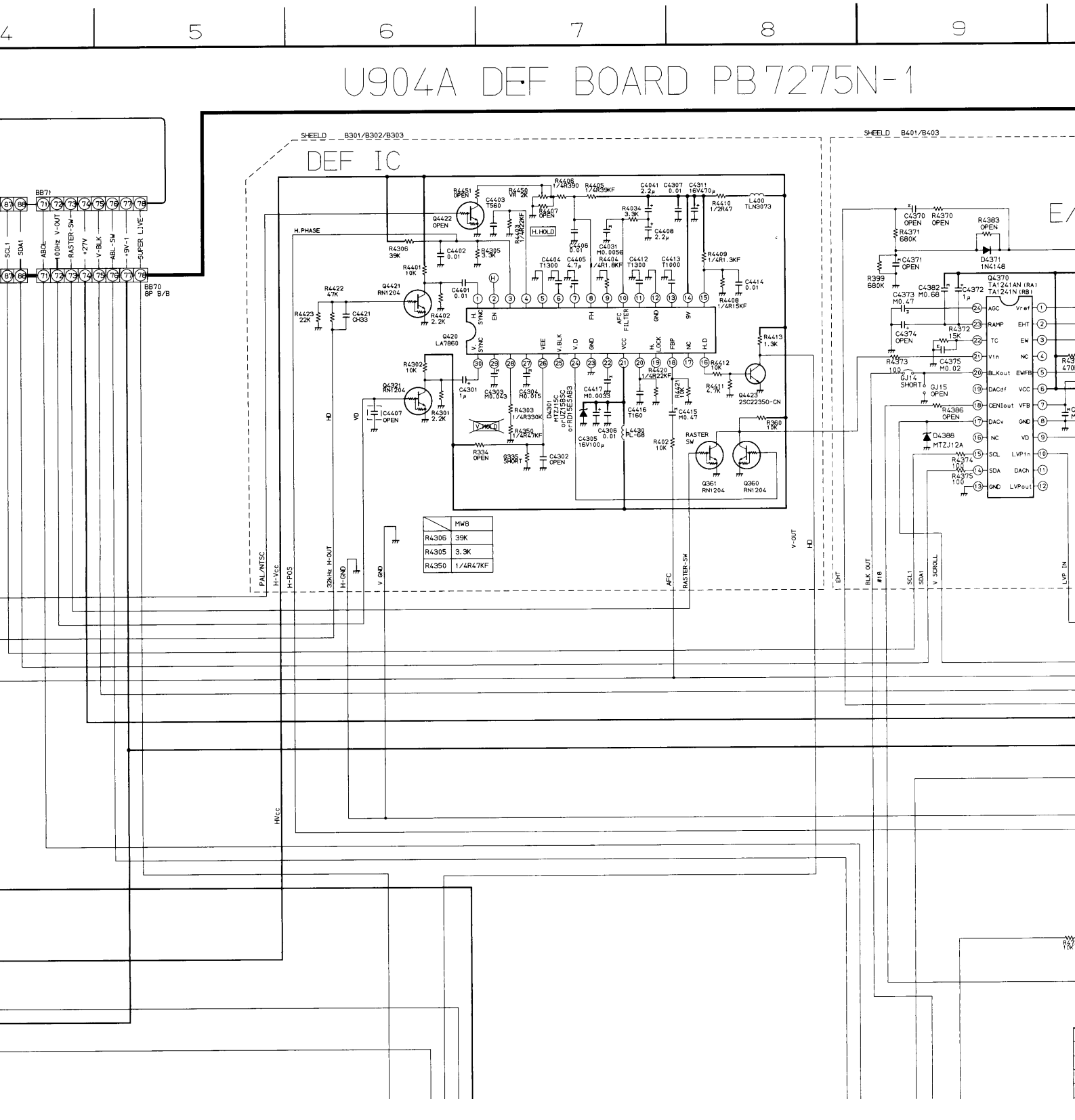


RVATION OF VOLTAGES AND WAVEFORMS

ages read with VTVM from point shown to chassis ground, line voltage 220
s, colour bar signal. Voltages reading may vary ±20%.
waveforms are taken using a wide band oscilloscope and a low capacity probe.
veforms are taken using a standard colour bar signal.
ke sure that CONTRAST and COLOUR controls are in mid position and
GHTNESS control is almost in maximum position. Set other controls for best
ure.

NOTES:

1. D.C. resistance value of a principal transformer is
   gram. These are measured for separated from the c
2. The circuits are subject to change without notice.
3. ⊖ : Solder links.



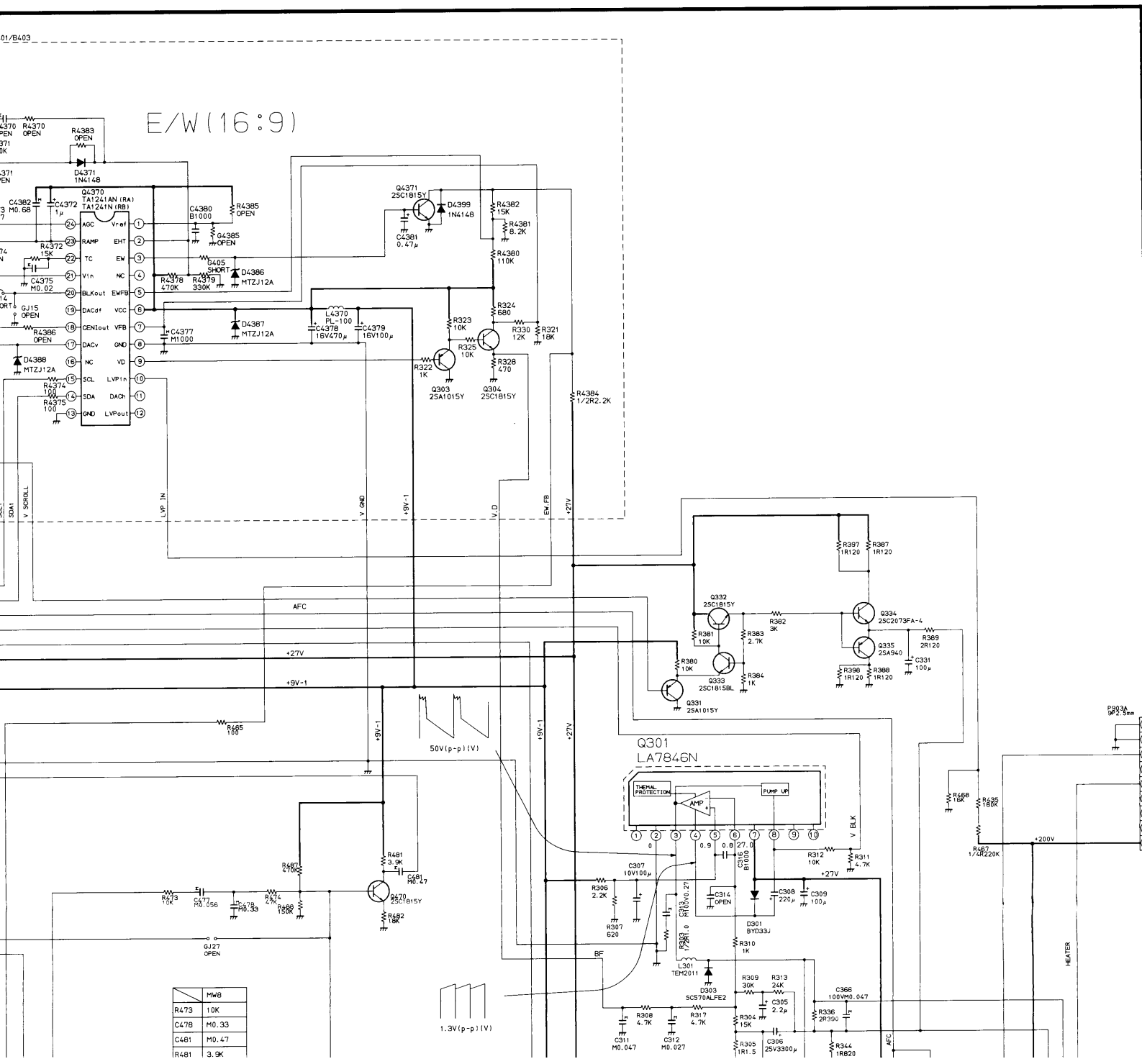
principal transformer is shown in this schematic dia-
for separated from the circuit.
change without notice.

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 e
   sed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are e
   sed in μH, and the values less than 1 in H.

9 | 10 | 11 | 12 | 13 | 14



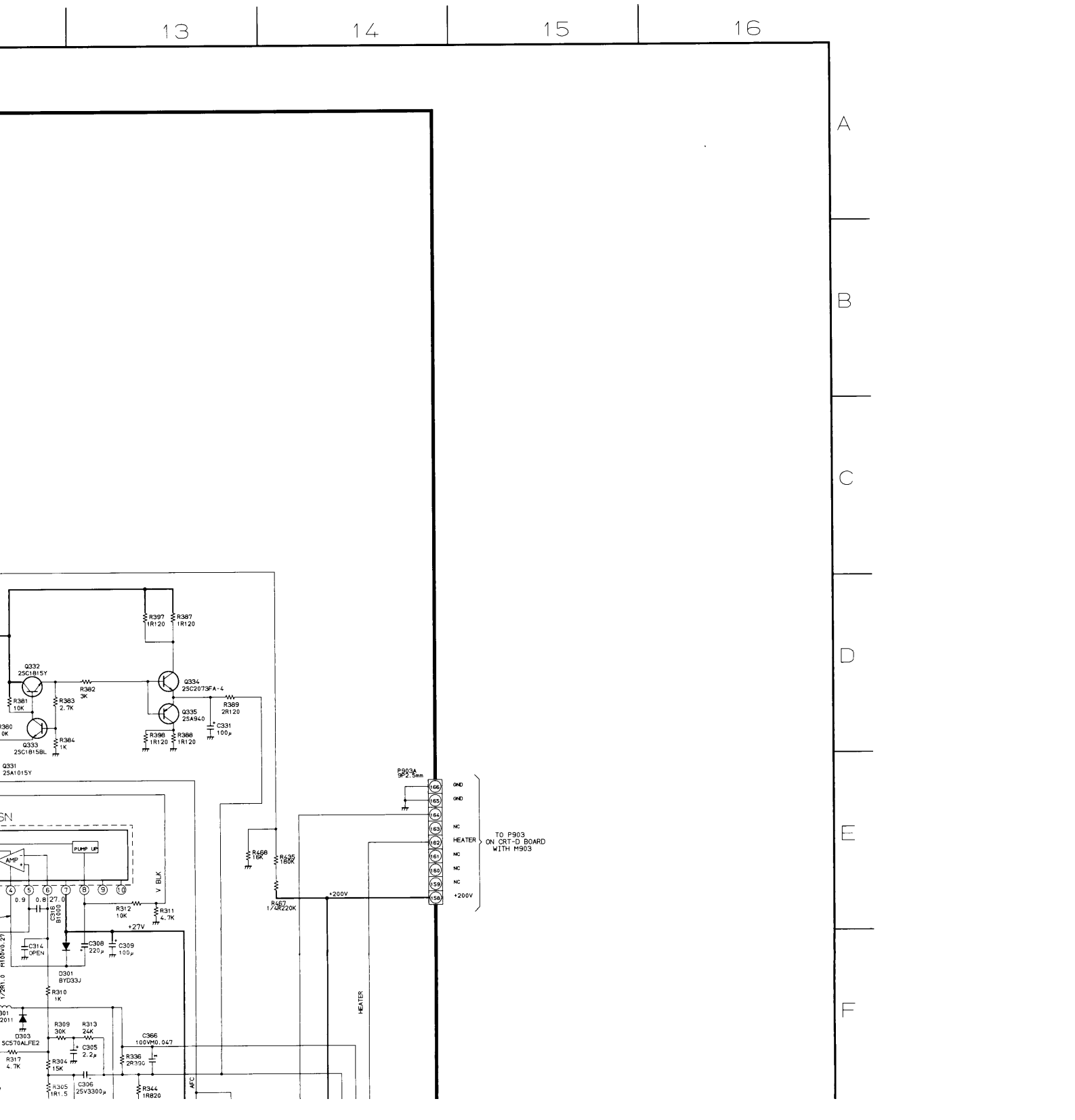
N

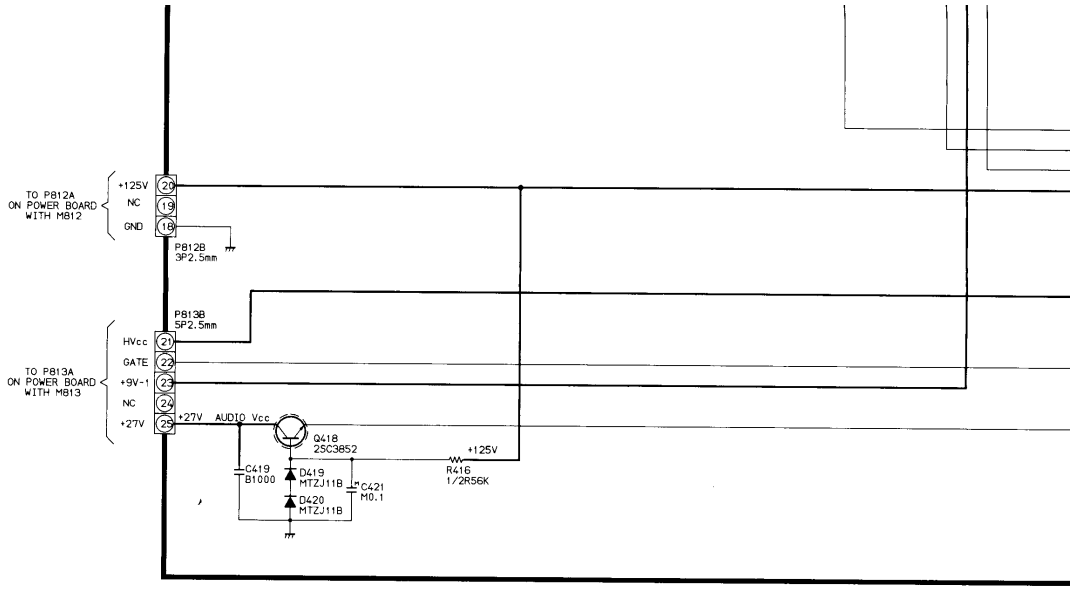
ESISTOR, CAPACITOR and INDUCTOR

s shown in ohm, k=1,000, M=1,000,000

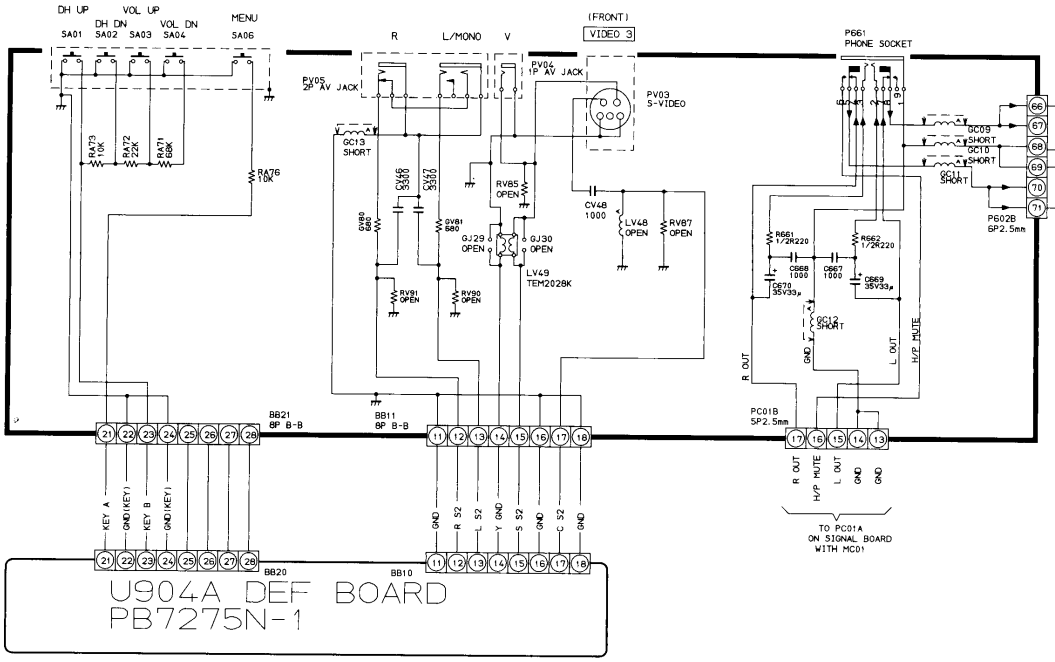
r wise noted in schematic, all capacitor values less than 1 are expres-
d the values more than 1 in pF.

rwise noted in schematic, all inductor values more than 1 are expres-
nd the values less than 1 in H.

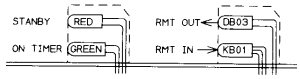




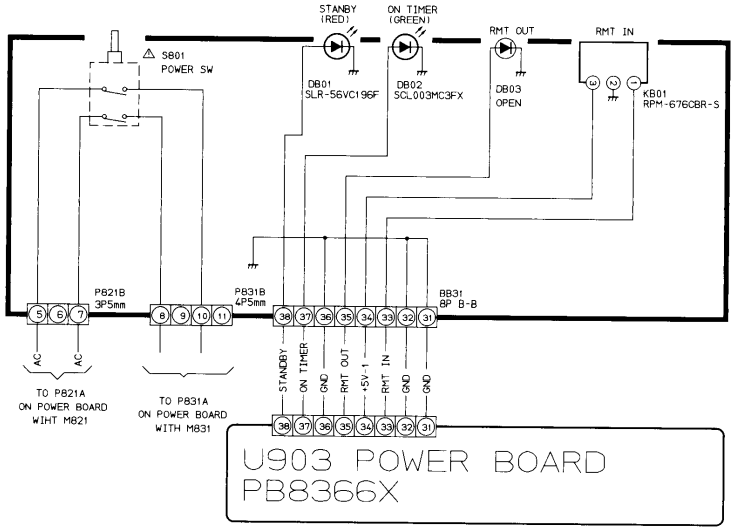
U904B CONT-1 BOARD PB7275N-2



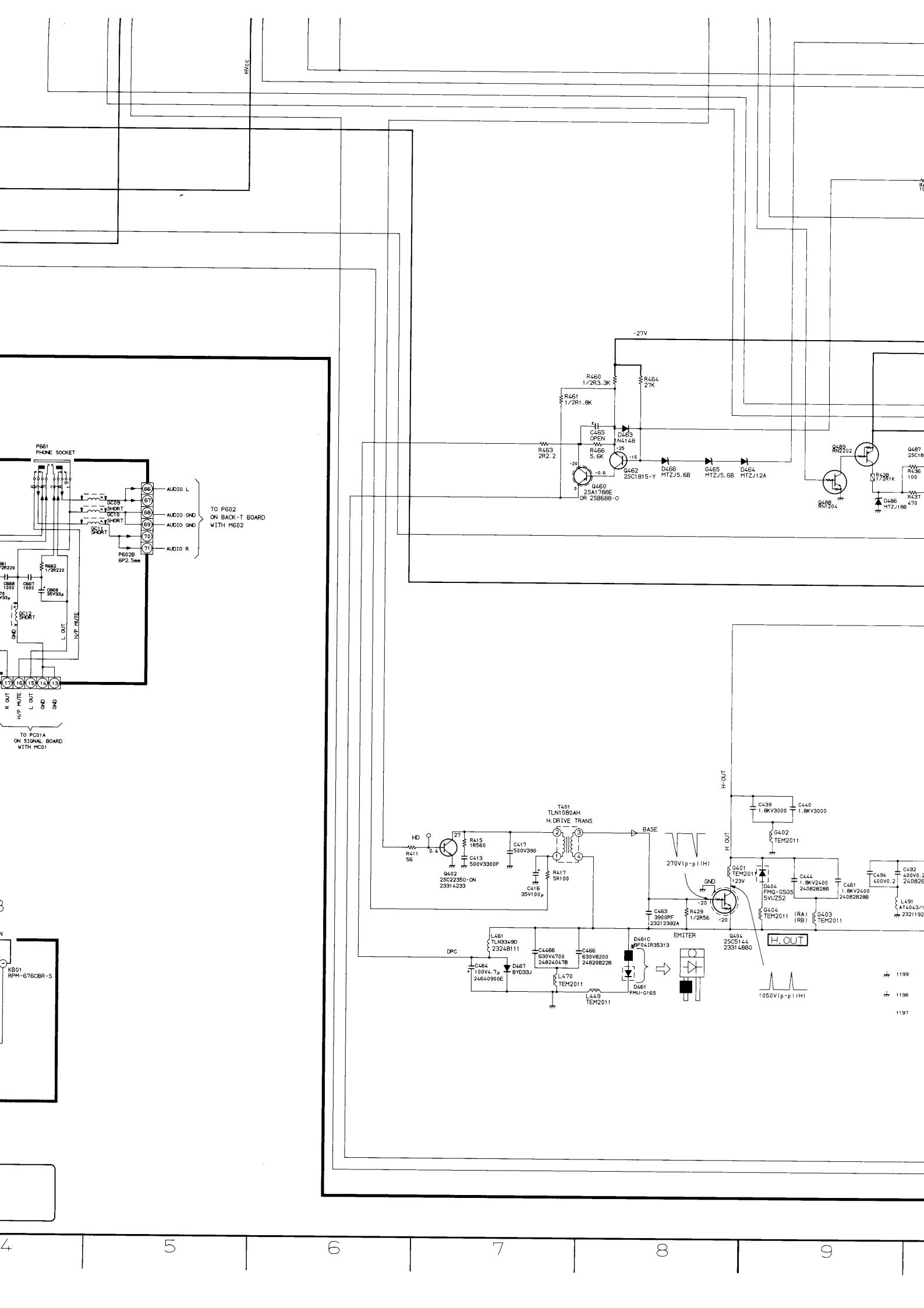
U904A DEF BOARD PB7275N-1

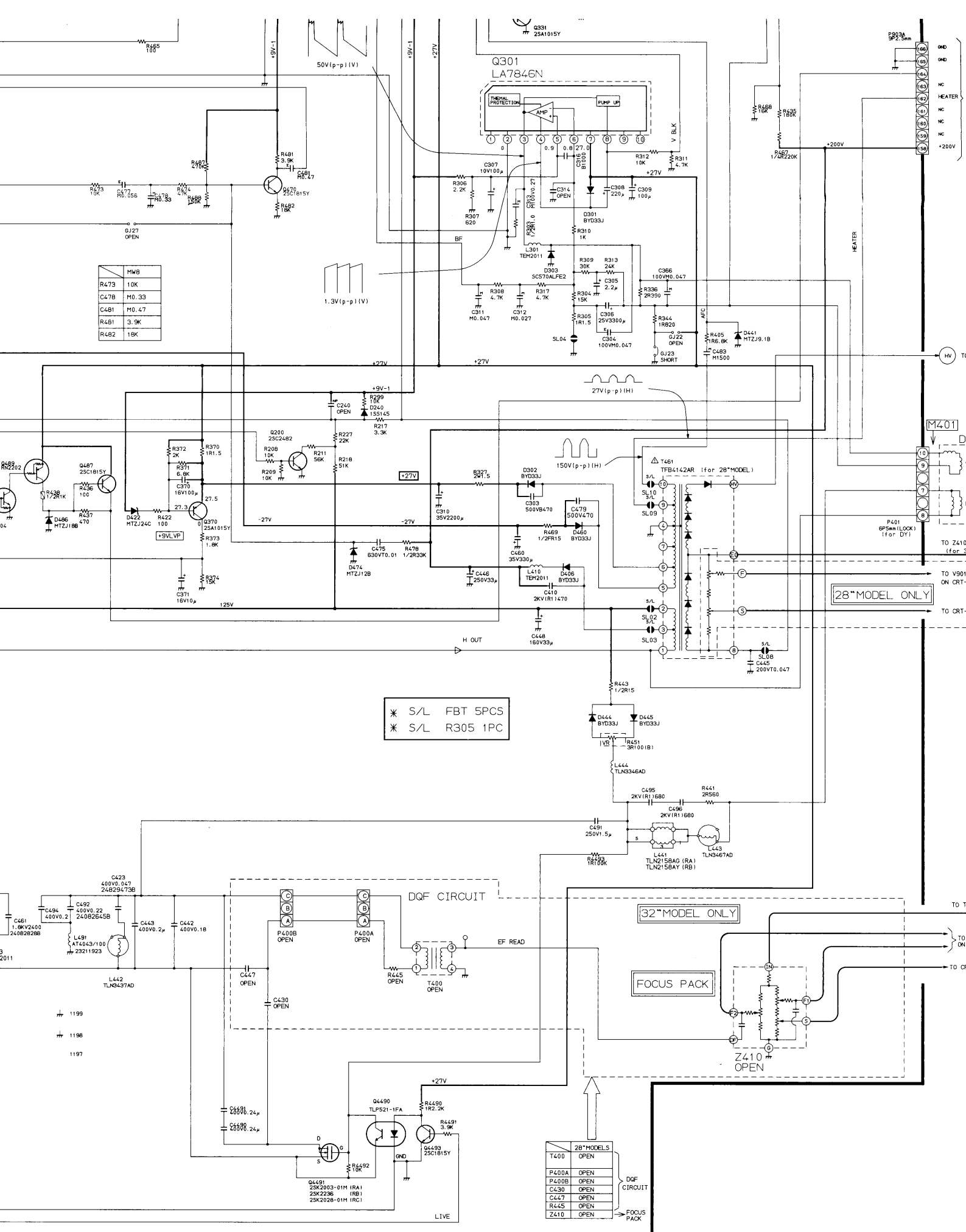


U904C CONT-2 BOARD PB7275N-3



U903 POWER BOARD PB8366X


HVcc
-27V
R460 1/2R3.3K
R464 27K
R461 1/2R1.8K
C465 OPEN
D463 N4148
R463 2R2.2
R466 5.6K
Q462 2SC1815-Y
Q460 2SA1788E OR 2SB688-O
D466 MTZJ5.6B
D465 MTZJ5.6B
D464 MTZJ12A
Q489 RN2202
Q488 RN1204
R438 1/2R1K
D486 MTZJ18B
P661 PHONE SOCKET
AUDIO L
AUDIO GND
AUDIO GND
AUDIO R
TO P602 ON BACK-T BOARD WITH M602
P602B 6P2.5mm
R662 1/2R220
C668 1000
C667 1000
C669 35V33μ
L OUT
H/P MUTE
GND
R OUT
TO PC01A ON SIGNAL BOARD WITH MC01
KB01 RPM-676CBR-S
T401 TLN1080AH H.DRIVE TRANS
HD
R411 S6
R415 1R560
C413 500V3300P
Q402 2SC2235O-ON 23314233
C417 500V390
C416 35V100μ
R417 5R100
BASE
270V(p-p)(H)
H-OUT
C439 1.8KV3000
C440 1.8KV3000
G402 TEM2011
G401 TEM2011 123V
D404 FMQ-G50S 5VUZS2
C444 1.8KV2400 240828288
C461 1.8KV2400 240828288
C494 400V0.2
C492 400V0.2 240828
L491 AT4043/1
2321192
G404 TEM2011 (RA)
G403 TEM2011 (RB)
C463 3900PF 232123922A
R429 1/2R56
GND
EMITER
Q404 2SC5144 23314880
H. OUT
1050V(p-p)(H)
L461 TLN3349O 23248111
C4466 630V4700 24824047B
C466 630V8200 24820822B
D461C RF041R35313
DPC
C464 100V4.7μ 24640908E
D467 BYD33J
L470 TEM2011
L469 TEM2011
D461 FMU-G16S
1199
1198
1197
4
5
6
7
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9

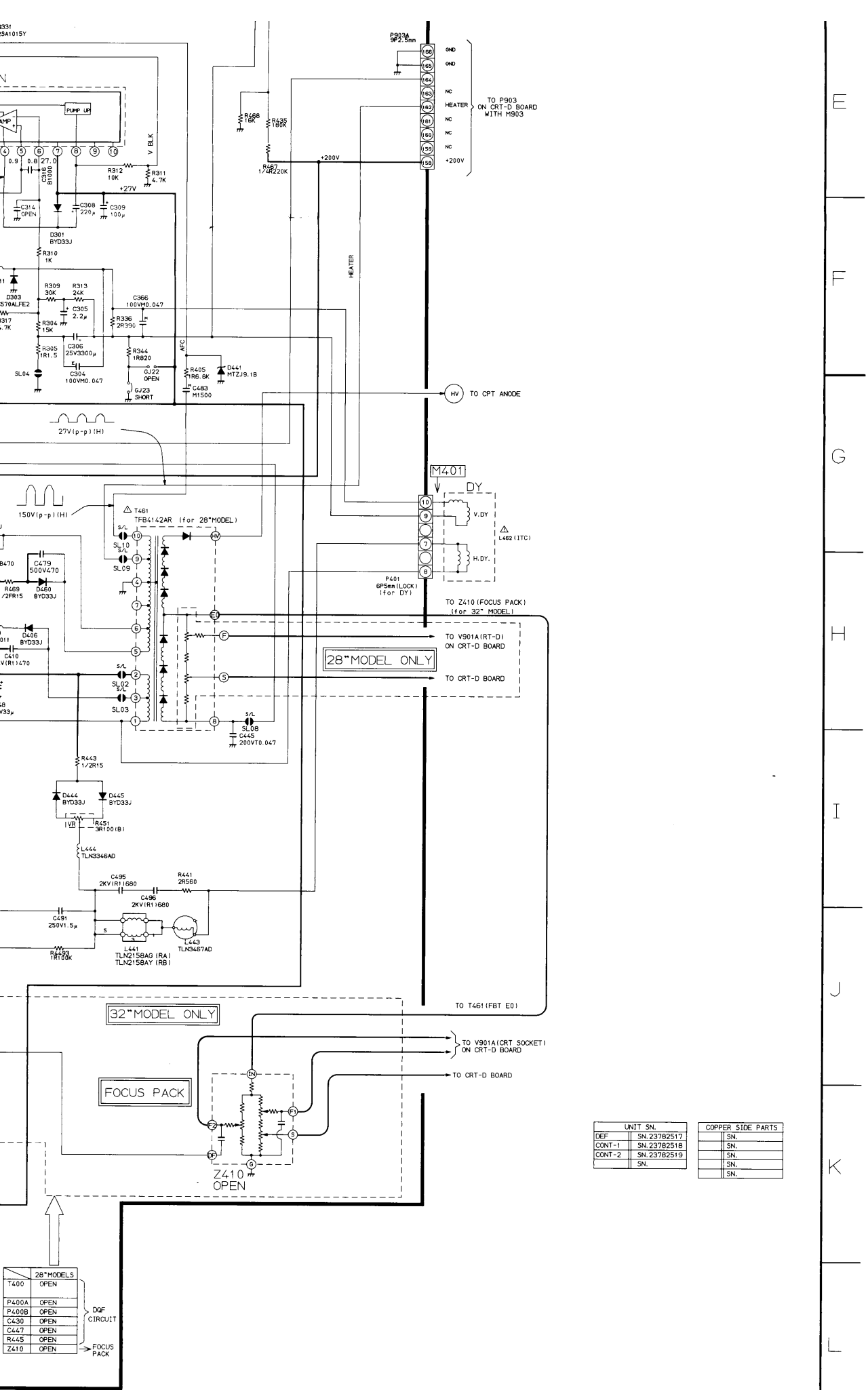


	MW8
R473	10K
C478	M0.33
C481	M0.47
R481	3.9K
R482	18K

	28"MODELS
T400	OPEN
P400A	OPEN
P400B	OPEN
C430	OPEN
C447	OPEN
R445	OPEN
Z410	OPEN

DQF CIRCUIT
FOCUS PACK

9	10	11	12	13	14



UNIT SN.	
DEF	SN.23782517
CONT-1	SN.23782518
CONT-2	SN.23782519
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

	28"MODELS	
T400	OPEN	
P400A	OPEN	DQF CIRCUIT
P400B	OPEN	
C430	OPEN	
C447	OPEN	
R445	OPEN	
Z410	OPEN	FOCUS PACK

SCHEMATIC DIAGRAM MODEL : 32MW8DG (3/8)
28MW8DG

030-9822

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 chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a 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 BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

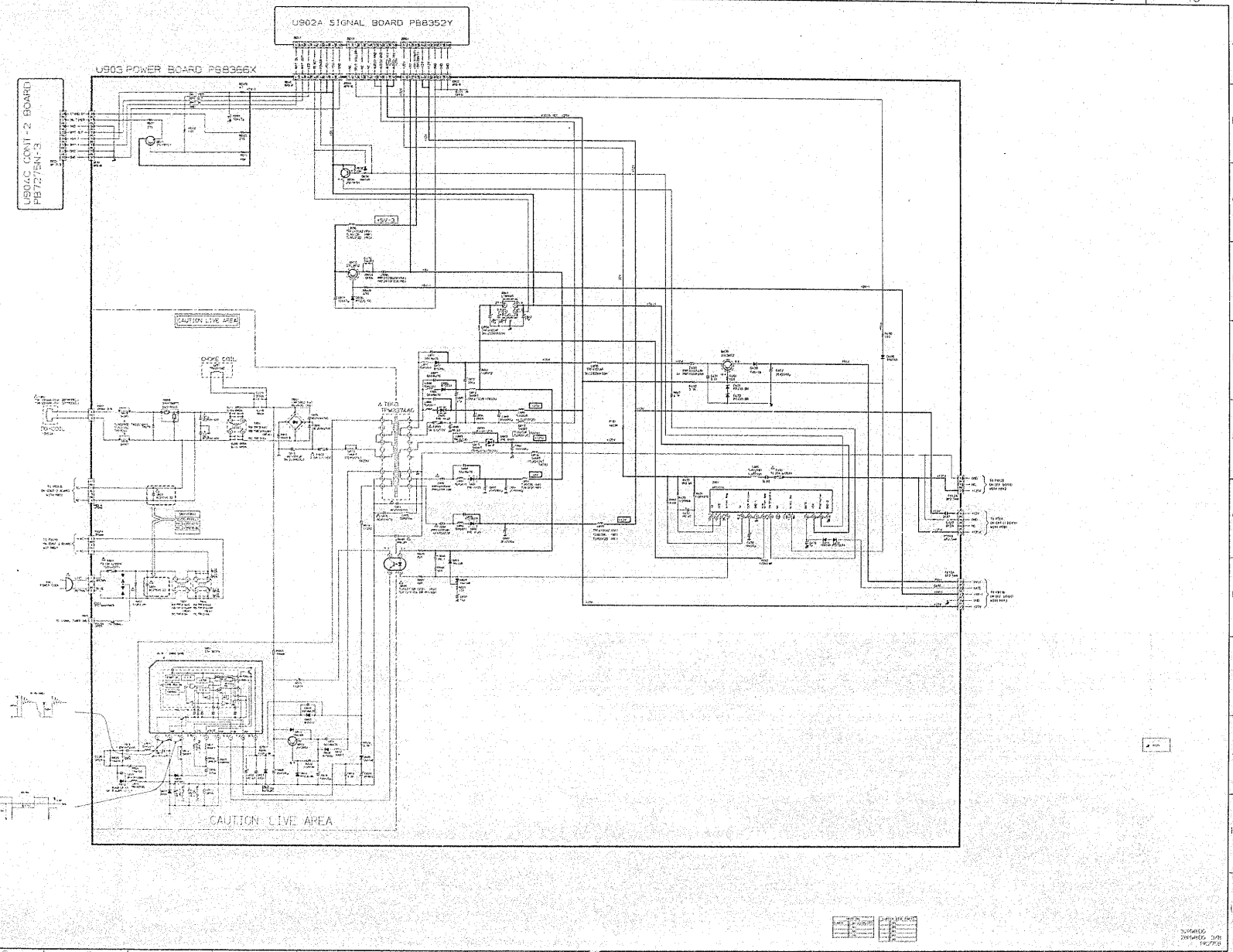
NOTES:

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



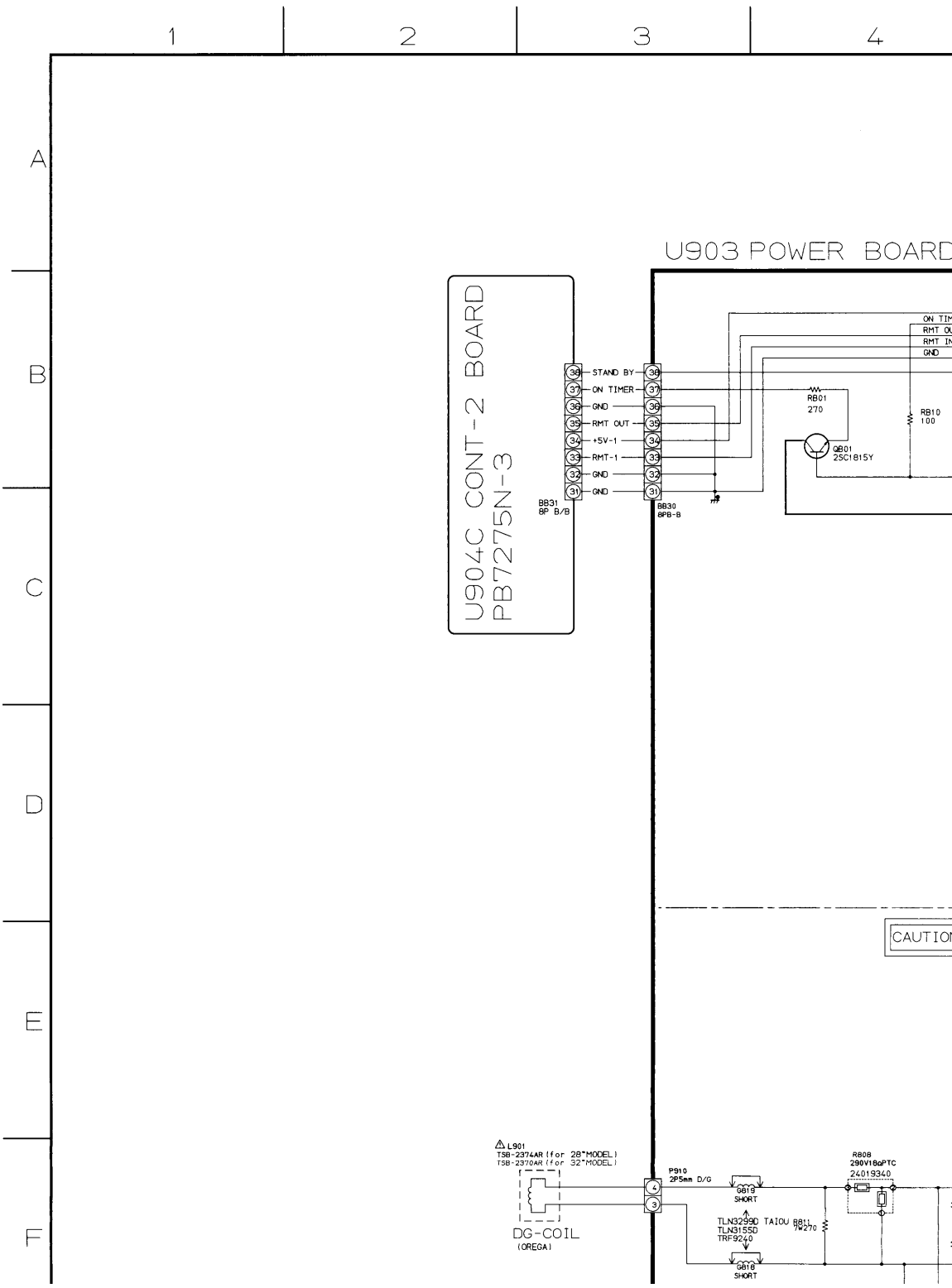
SCHEMATIC DIAGRAM MODEL : 32MW8DG (3/8)
28MW8DG

030-9822

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 C

1. Voltages read volts, colour b
2. All waveforms
3. Waveforms ar
4. Make sure th BRIGHTNESS picture.

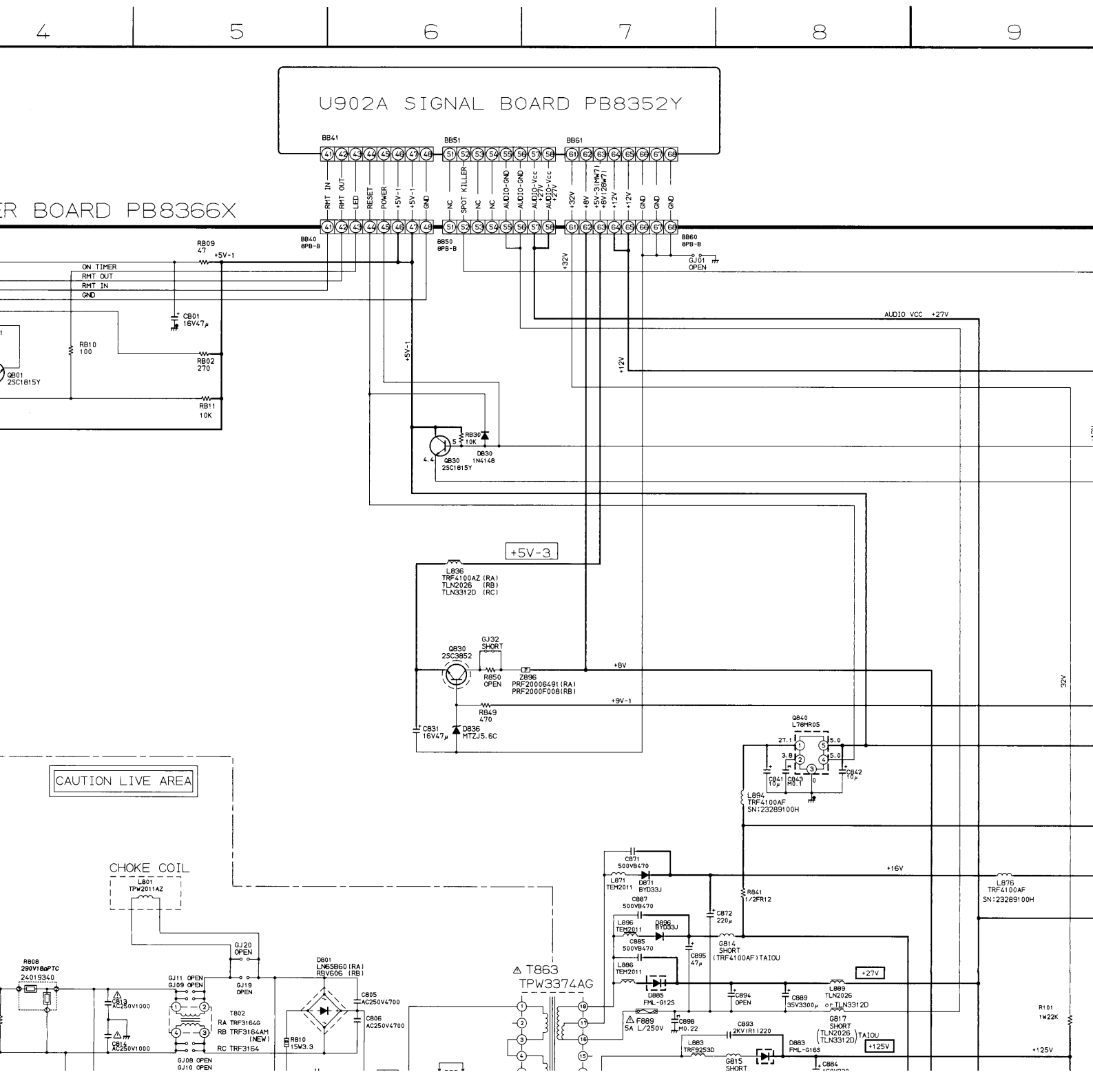


OBSERVATION OF VOLTAGES AND WAVEFORMS

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NOTES:

1. D.C. resistance value of a principal transfor gram. These are measured for separated from
2. The circuits are subject to change without no
3. ● : Solder links.



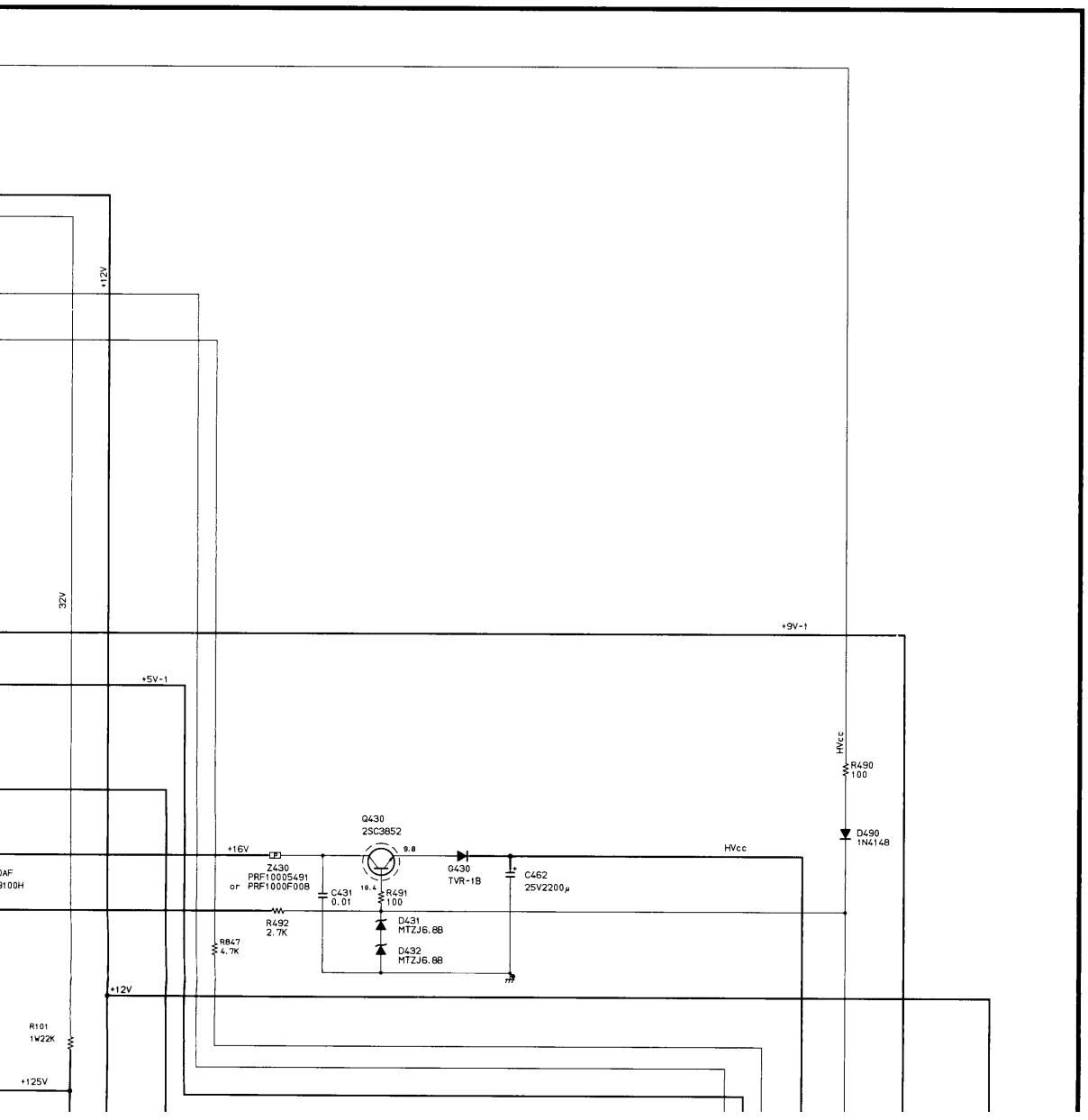
pal transformer is shown in this schematic dia-
parated from the circuit.
without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

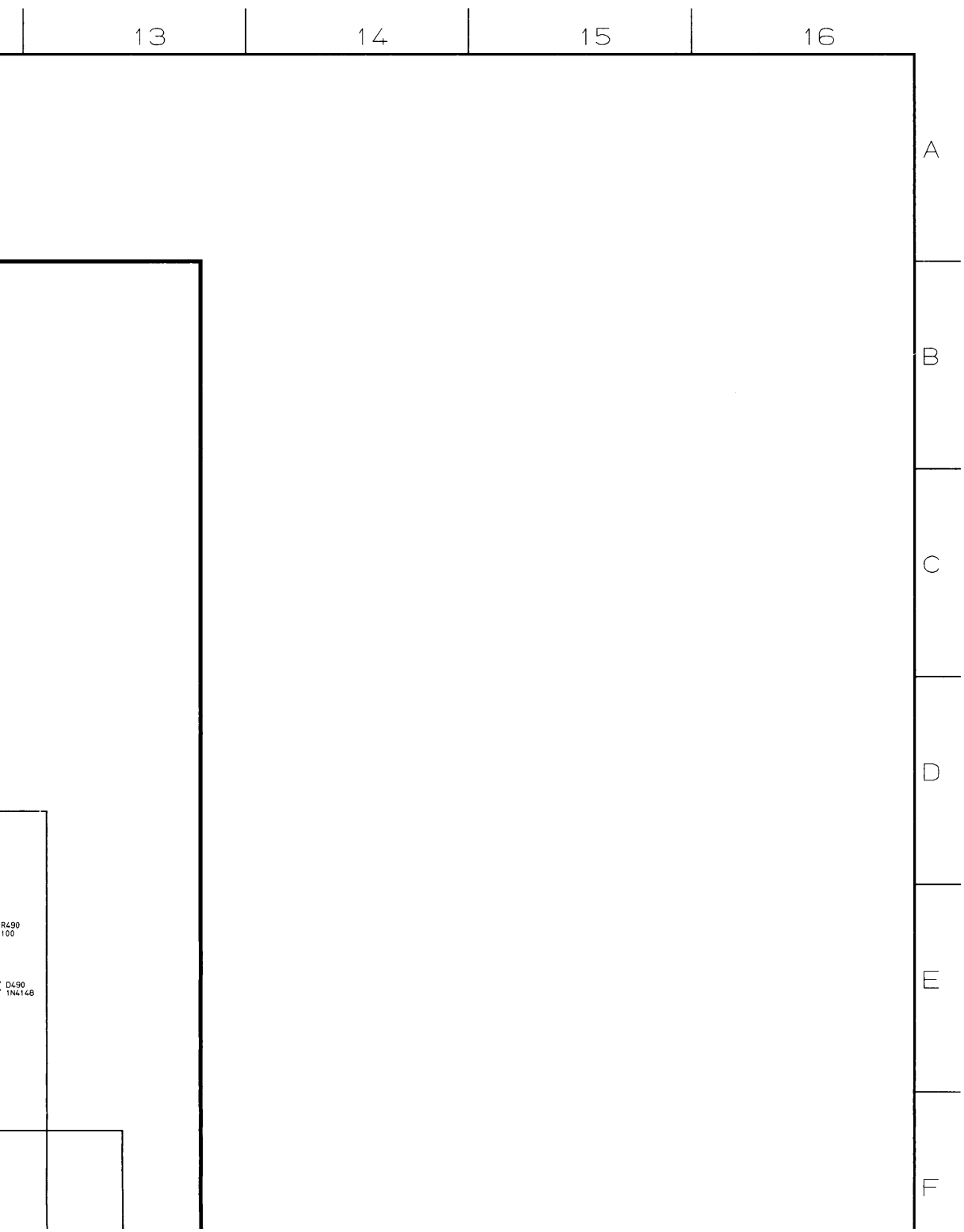
1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in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

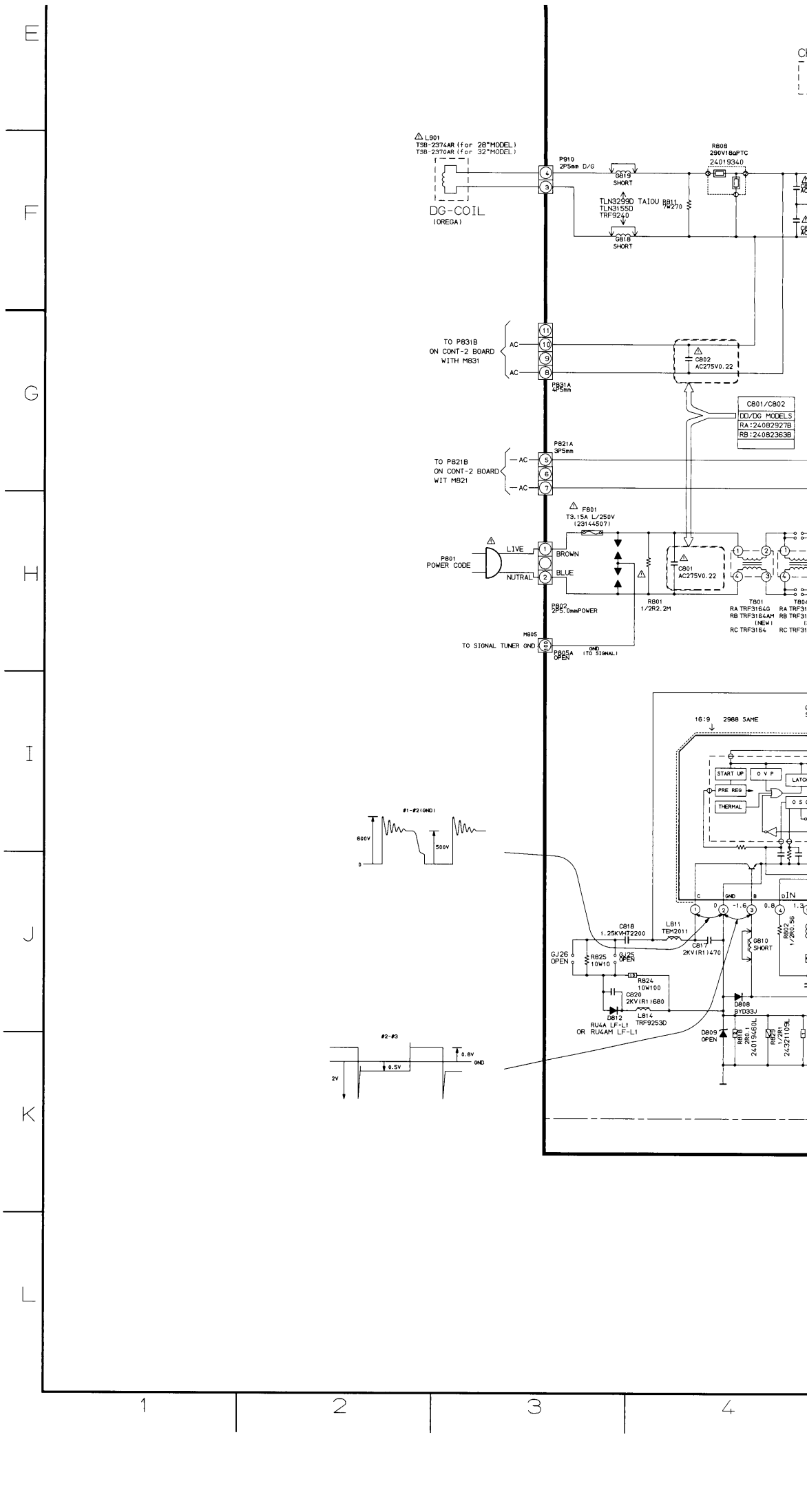
9 | 10 | 11 | 12 | 13 | 14

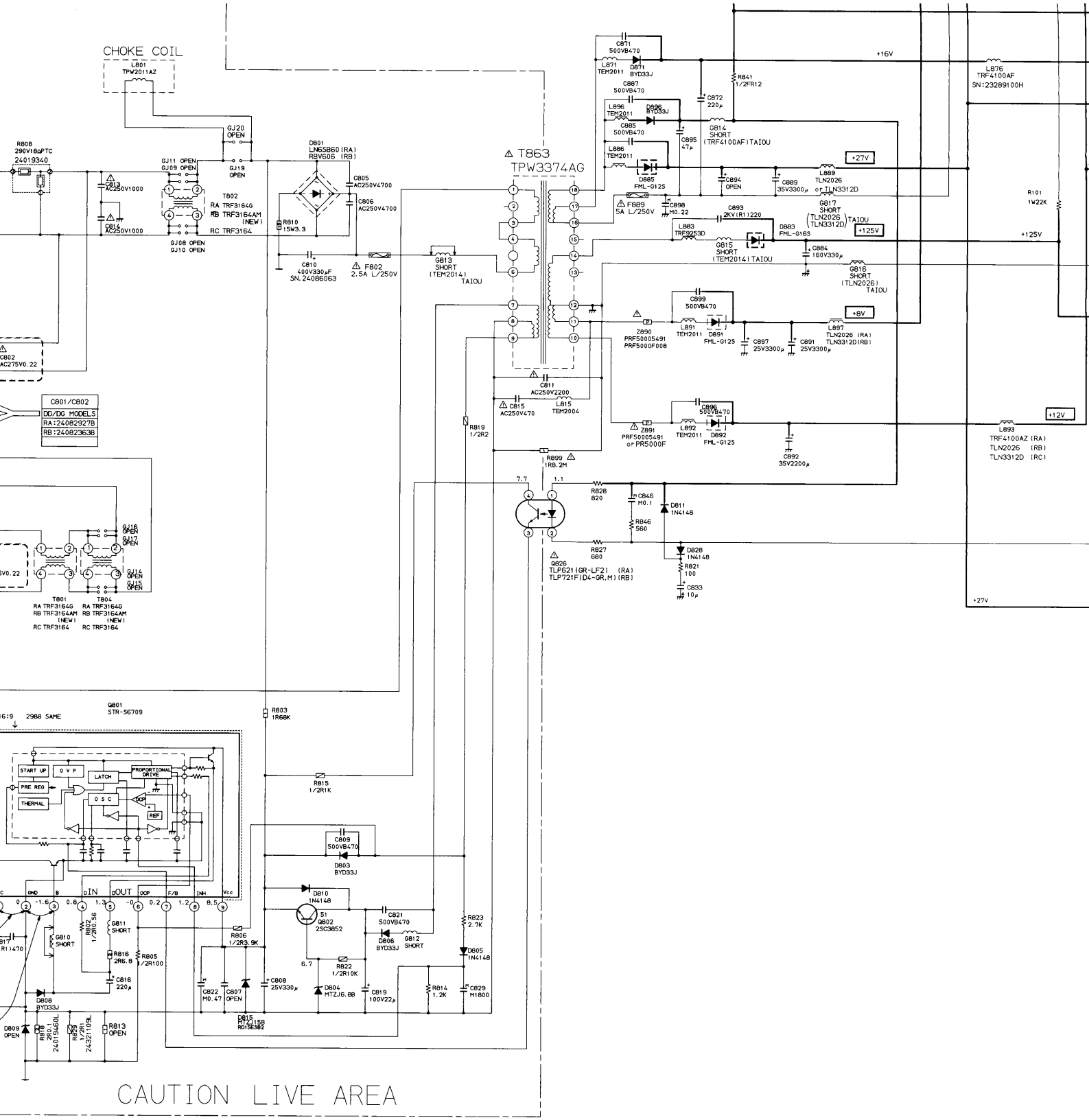


TOR, CAPACITOR and INDUCTOR

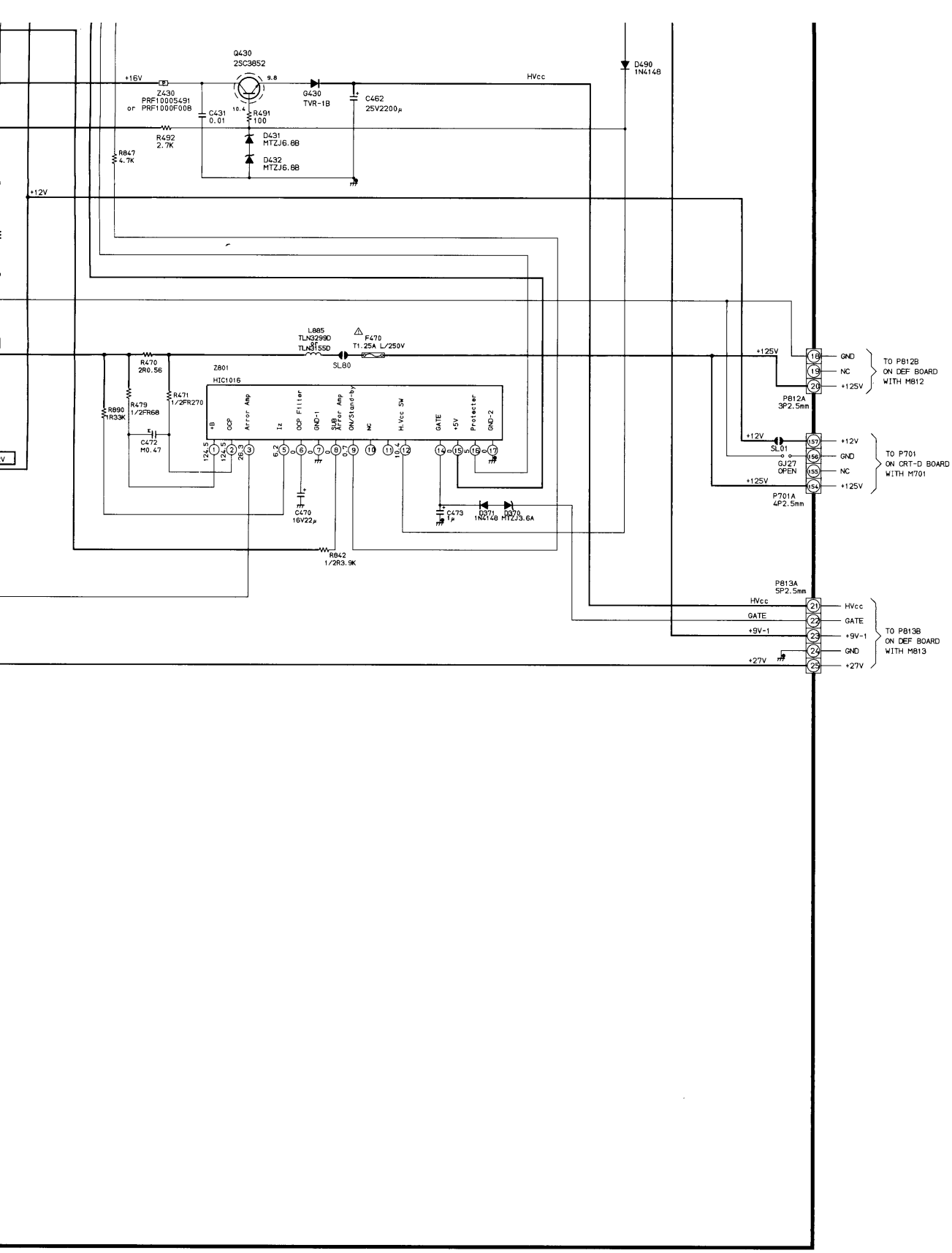
n in ohm, k=1,000, M=1,000,000
noted in schematic, all capacitor values less than 1 are expres-
values more than 1 in pF.
noted in schematic, all inductor values more than 1 are expres-
values less than 1 in H.




L901
TSB-2374AR (for 28"MODEL)
TSB-2370AR (for 32"MODEL)
DG-COIL
(OREGA)
P910
2P5mm D/G
G819
SHORT
G818
SHORT
TLN3299D TAIOU
TLN3155D
TRF9240
R811
1/2270
R808
290V18ΩPTC
24019340
TO P831B
ON CONT-2 BOARD
WITH M831
AC
AC
P831A
2P5mm
C802
AC275V0.22
C801/C802
DO/DG MODELS
RA:240829278
RB:240823638
P821A
3P5mm
TO P821B
ON CONT-2 BOARD
WIT M821
AC
AC
F801
T3.15A L/250V
(23144507)
P801
POWER CODE
LIVE
BROWN
NUTRAL
BLUE
P802
2P5.0mmPOWER
C801
AC275V0.22
R801
1/2R2.2M
T801
RA TRF3164G
RB TRF3164AM
(NEW)
RC TRF3164
M805
TO SIGNAL TUNER GND
P805A
OPEN
GND
(TO SIGNAL)
16:9 2988 SAME
START UP
O V P
PRE REG
THERMAL
C
GND
B
DIN
C818
1.25KVHT2200
L811
TEM2011
C817
2KV(R1)470
G810
SHORT
GJ26
OPEN
R825
10W10
GJ25
OPEN
R824
10W100
C820
2KV(R1)680
D808
BYD33J
D812
RU4A LF-L1
OR RU4AM LF-L1
L814
TRF9253D
D809
OPEN
R818
290V
2401946JL
R820
1/2R1
2432110SL
#1-#2(GND)
600V
500V
0
#2-#3
0.8V
0.5V
2V
GND

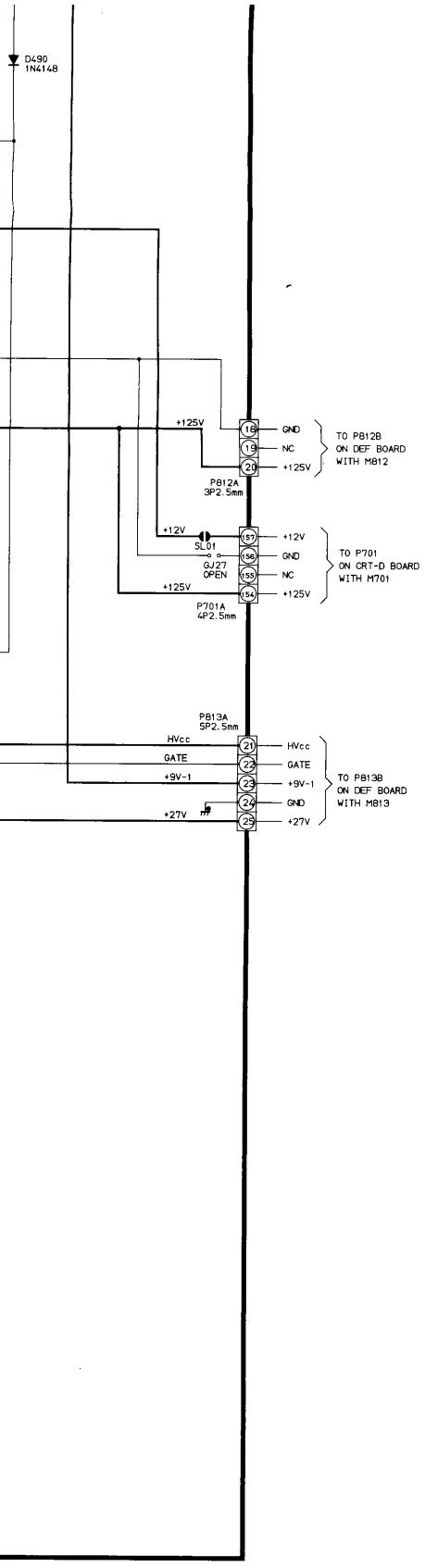

CHOKE COIL
L801
TPW2011AZ
T863
TPW3374AG
+16V
+27V
+125V
+8V
+12V
CAUTION LIVE AREA

4	5	6	7	8	9



UNIT SN.	
POWER	SN.23782373
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



1199

COPPER SIDE PARTS
SN.
SN.
SN.
SN.
SN.

32MW8DG
28MW8DG 3/8
PK2758

E F G H I J K L

13 14 15 16

SCHEMATIC DIAGRAM MODEL : 32MW8DG (4/8)
28MW8DG

030-9822

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 chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
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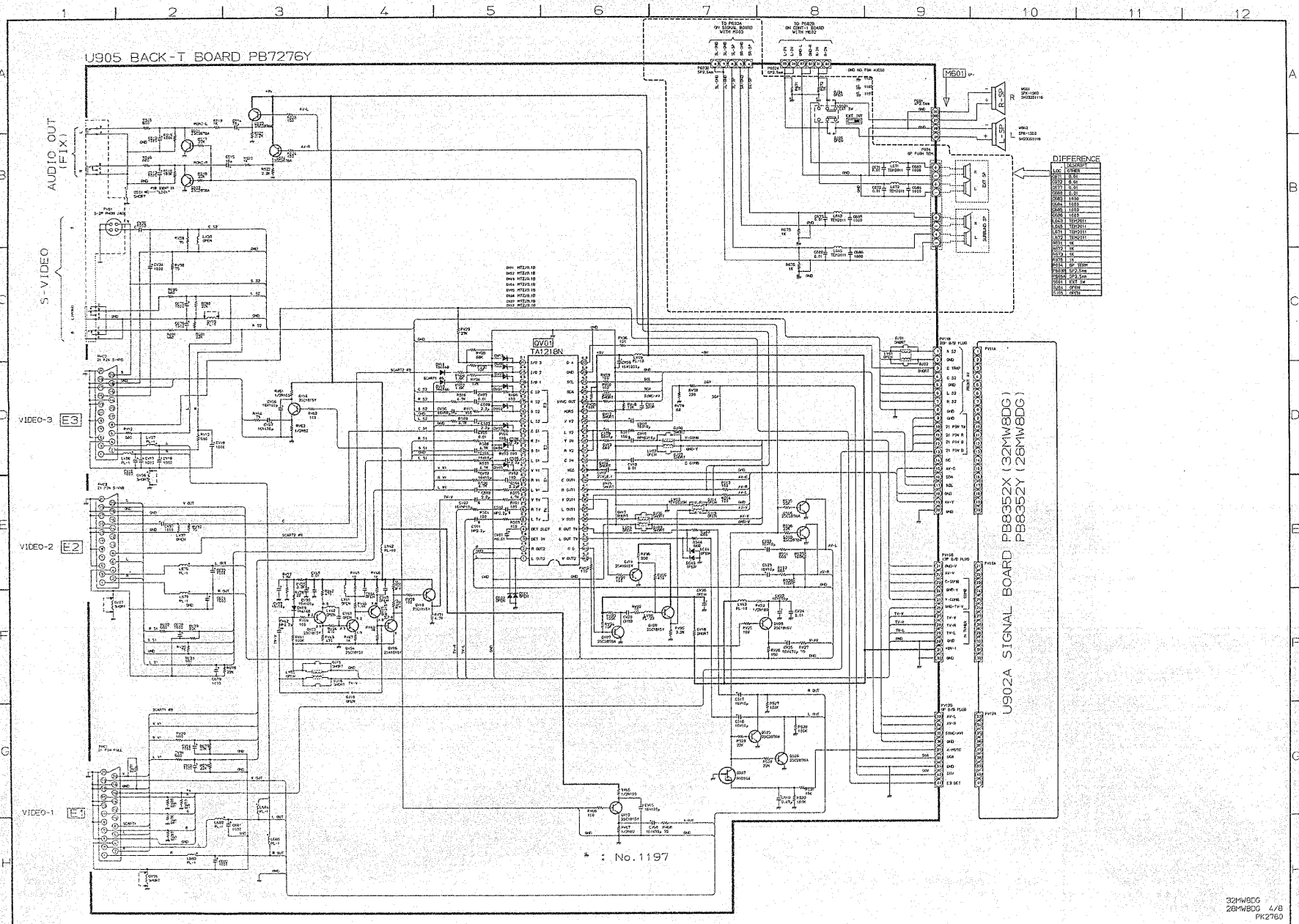
NOTES:

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.

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.
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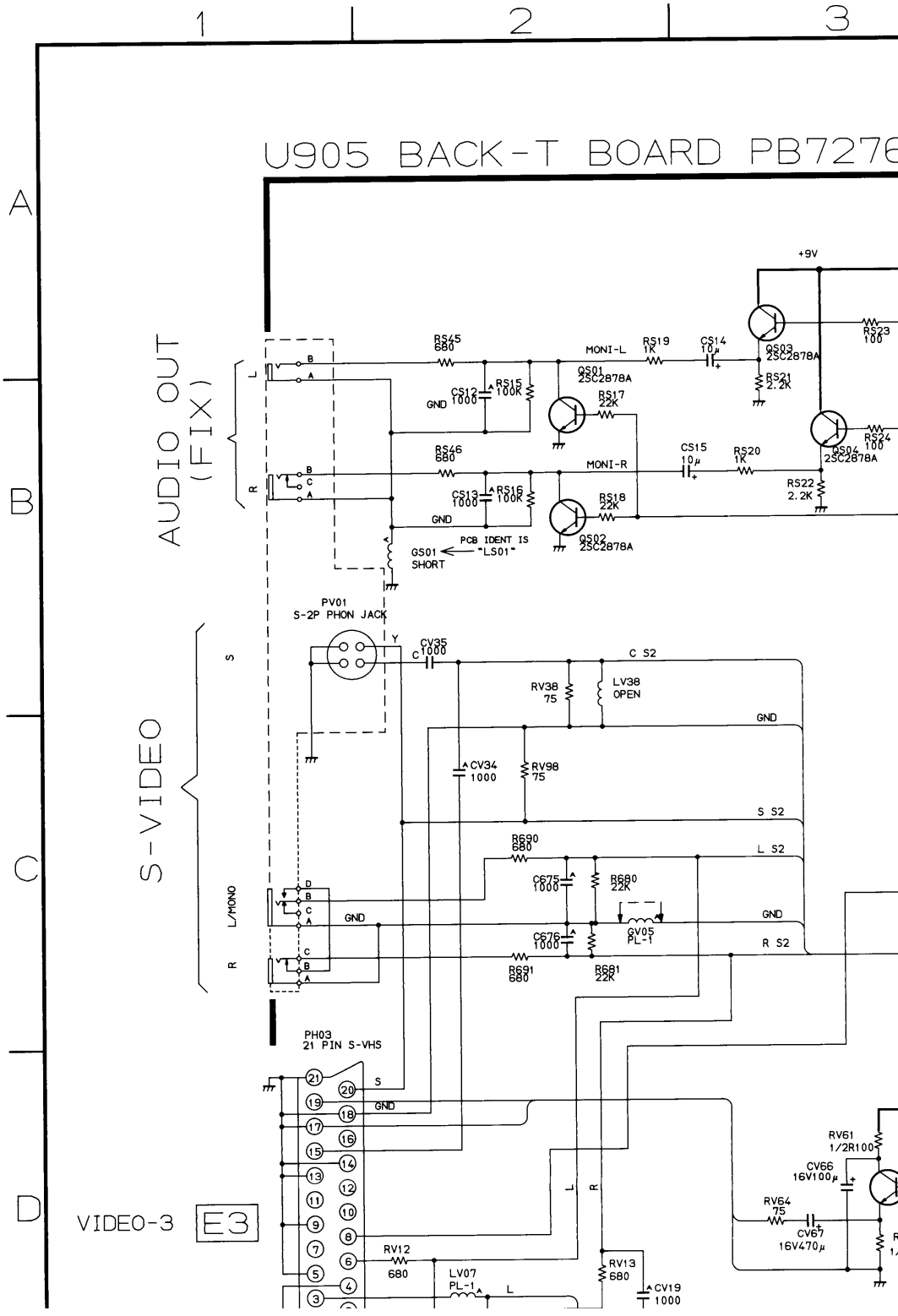


SCHEMATIC DIAGRAM MODEL : 32MW8DG (4/8)
28MW8DG

030-9822

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.

OBSERVAT
1. Voltages volts, co
2. All wave
3. Wavefor
4. Make su BRIGHTI picture.

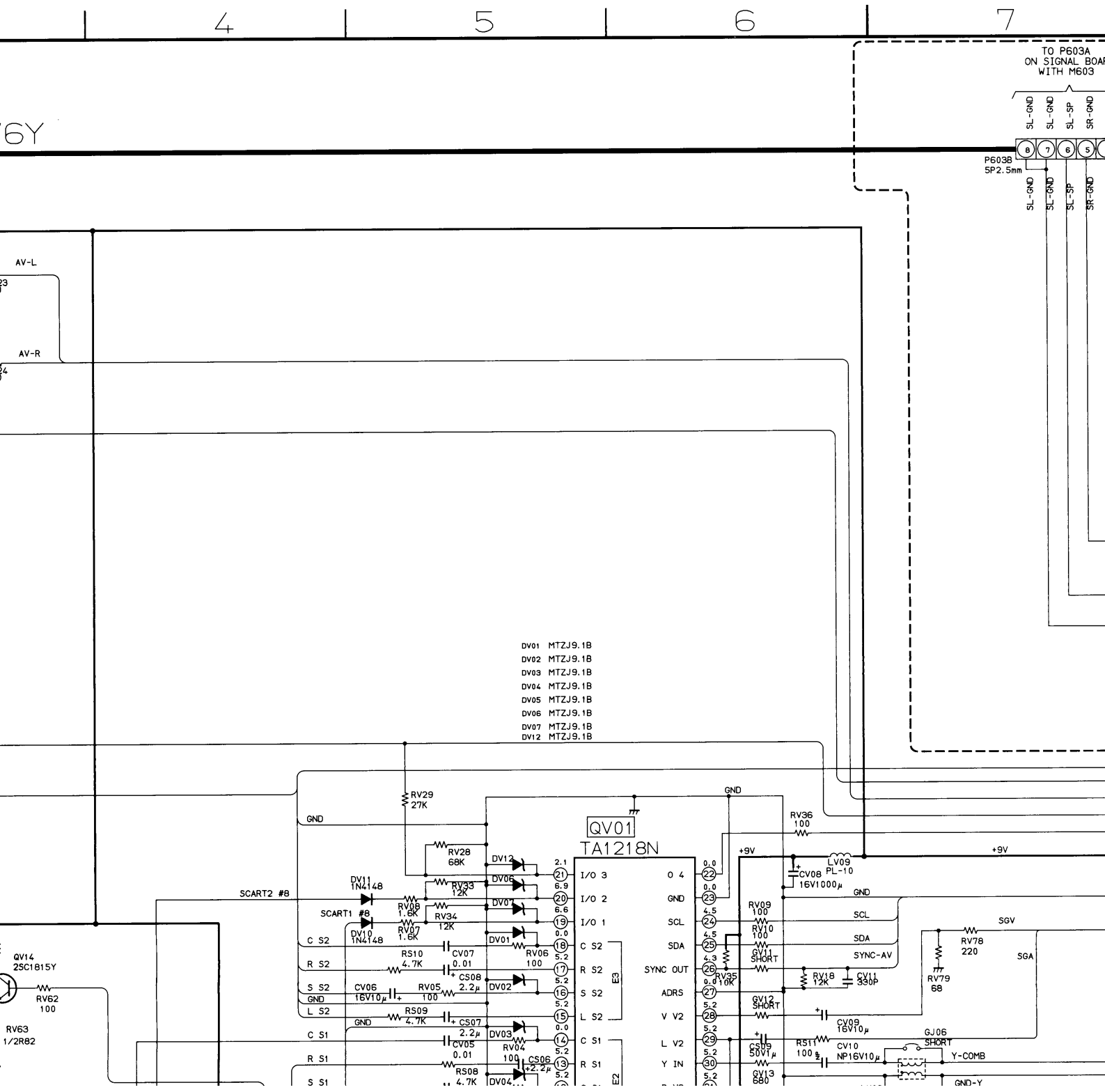


VATION OF VOLTAGES AND WAVEFORMS

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colour bar signal. Voltages reading may vary ±20%.
veforms are taken using a wide band oscilloscope and a low capacity probe.
forms are taken using a standard colour bar signal.
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NOTES:

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   gram. These are measured for separated from the cir
2. The circuits are subject to change without notice.
3. ● : Solder links.

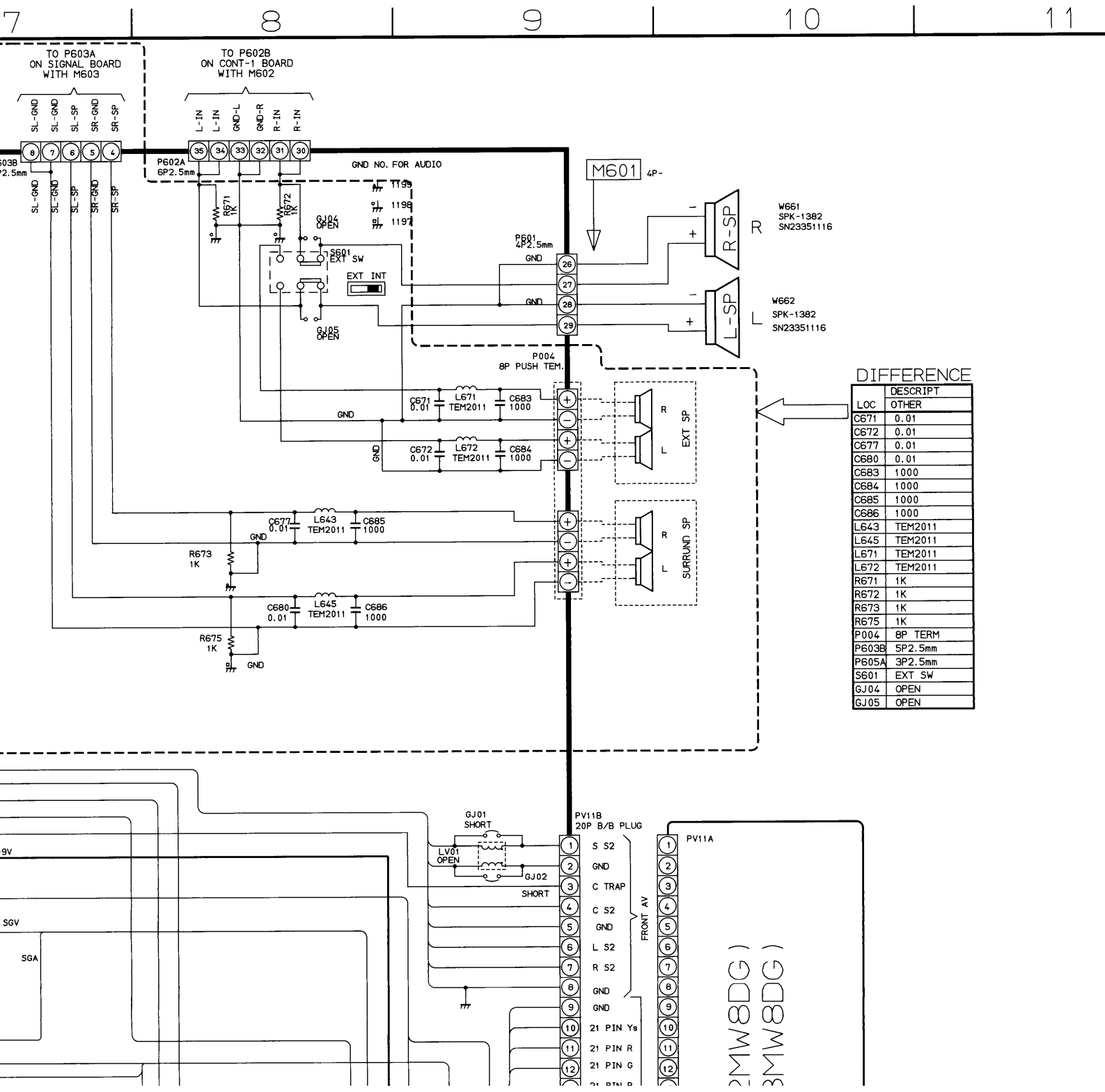


transformer is shown in this schematic dia-
ted from the circuit.
thout notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

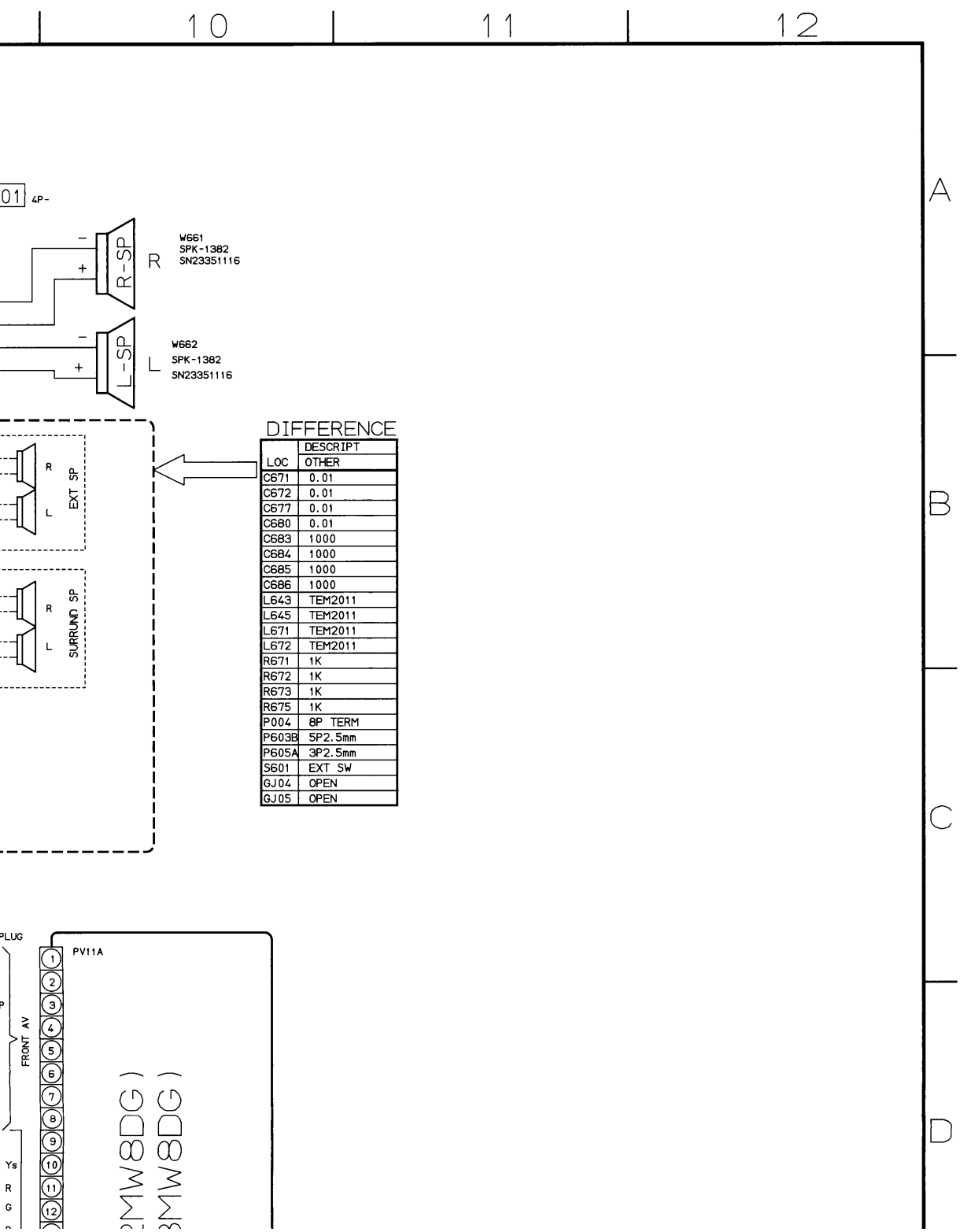
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3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.



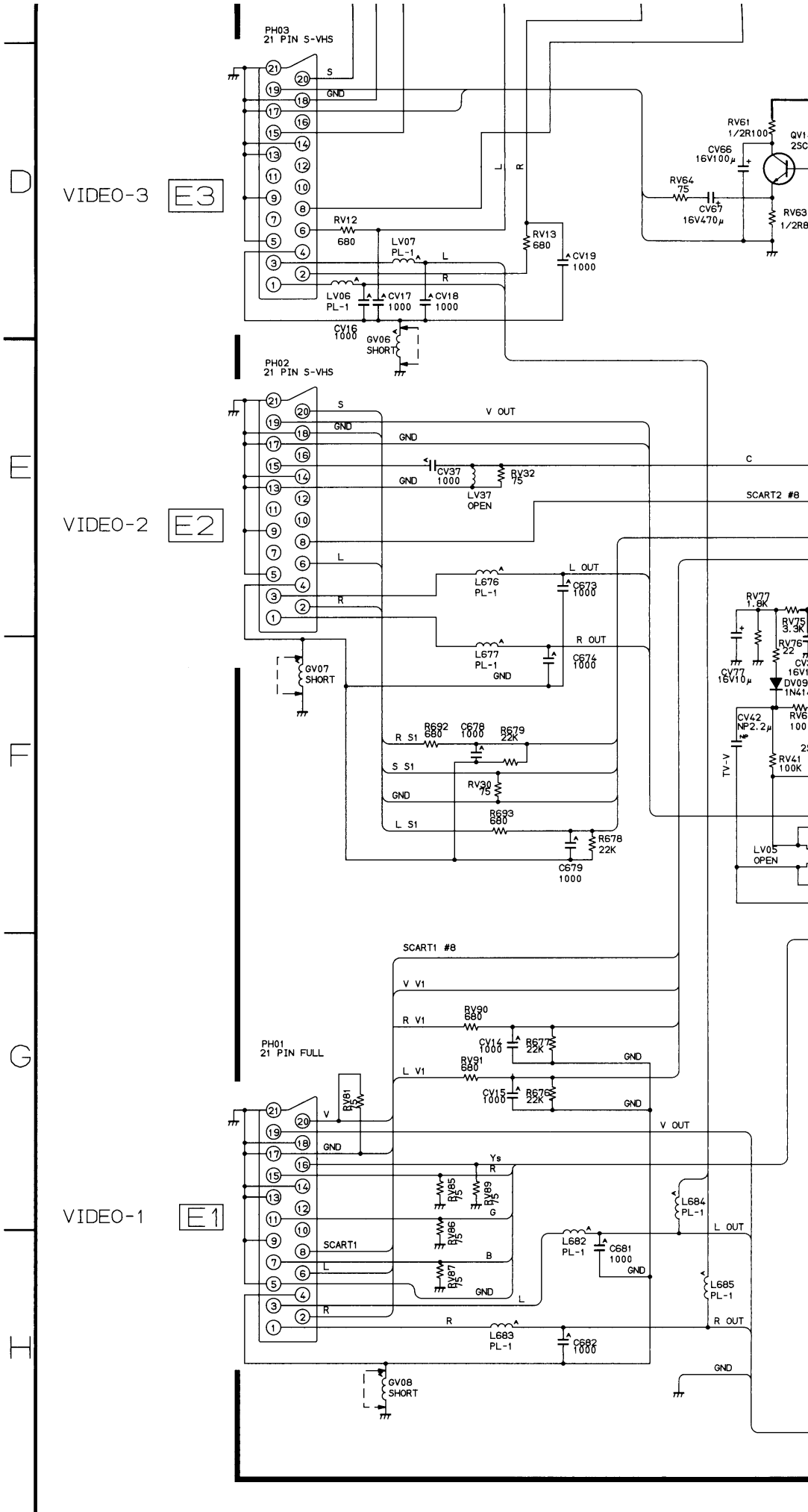
LOC	DESCRIPT OTHER
C671	0.01
C672	0.01
C677	0.01
C680	0.01
C683	1000
C684	1000
C685	1000
C686	1000
L643	TEM2011
L645	TEM2011
L671	TEM2011
L672	TEM2011
R671	1K
R672	1K
R673	1K
R675	1K
P004	8P TERM
P603B	5P2.5mm
P605A	3P2.5mm
S601	EXT SW
GJ04	OPEN
GJ05	OPEN

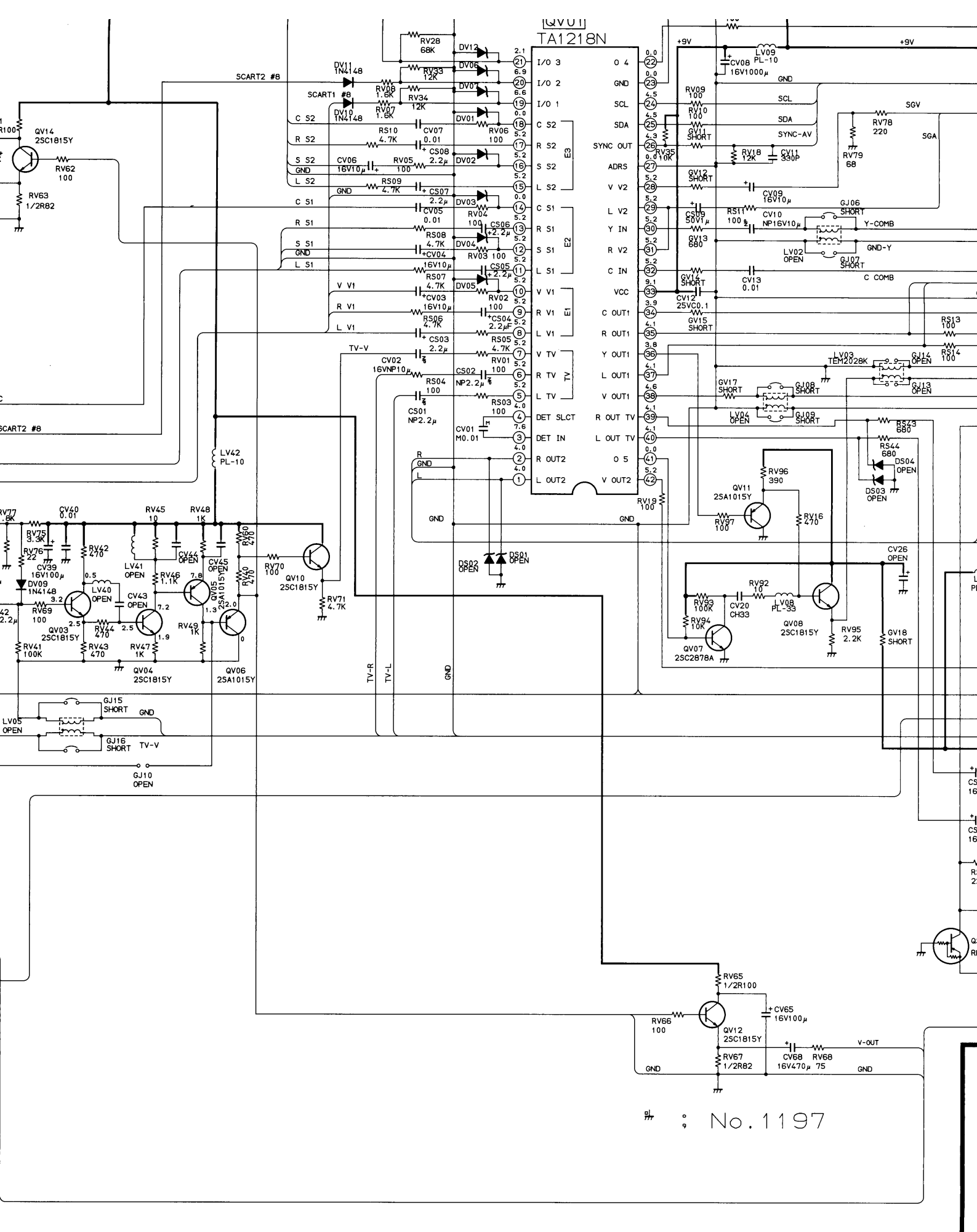
STOR, CAPACITOR and INDUCTOR

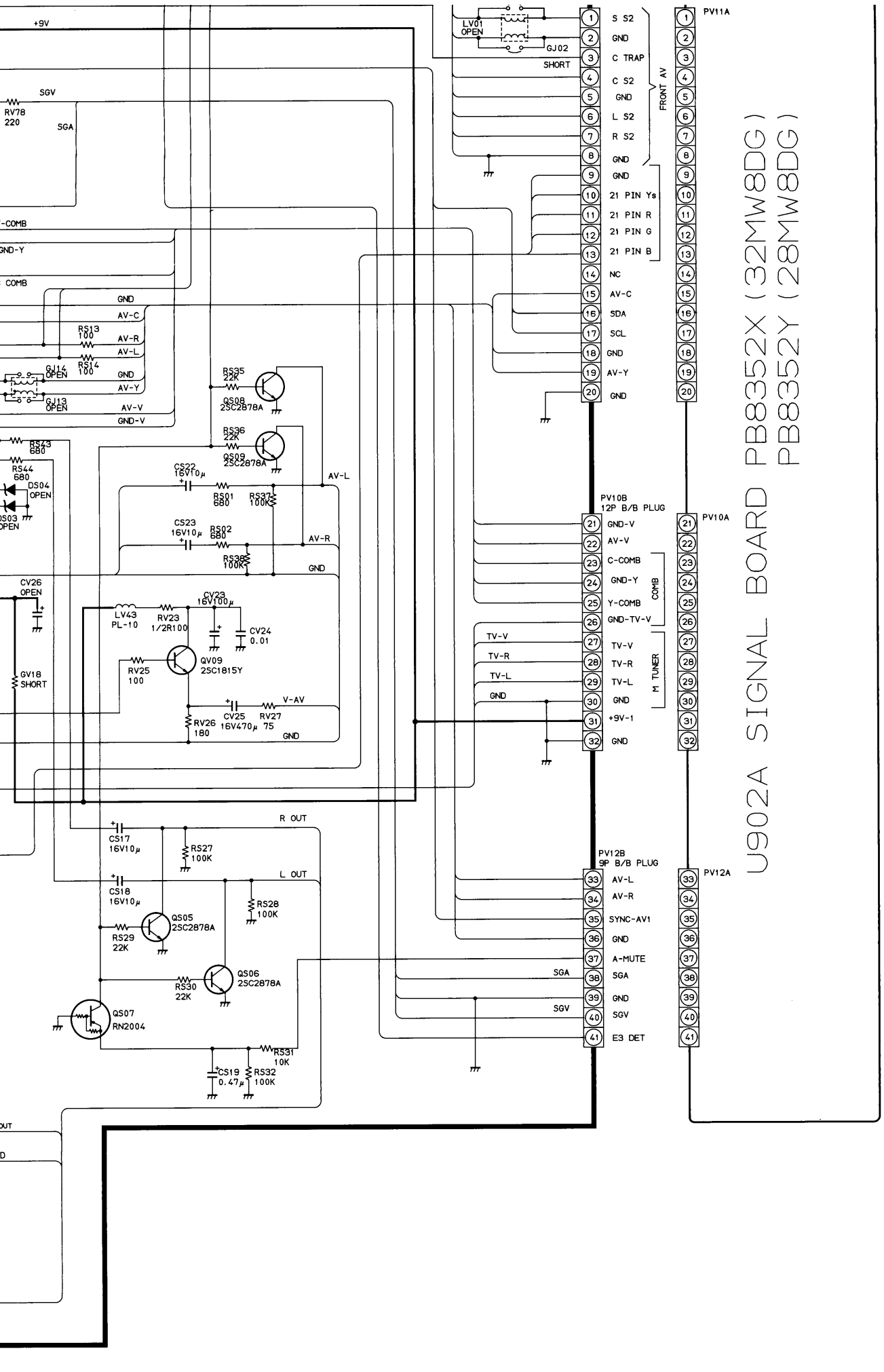
own in ohm, k=1,000, M=1,000,000
se noted in schematic, all capacitor values less than 1 are expres-
e values more than 1 in pF.
e noted in schematic, all inductor values more than 1 are expres-
ne values less than 1 in H.



LOC	DESCRIPT OTHER
C671	0.01
C672	0.01
C677	0.01
C680	0.01
C683	1000
C684	1000
C685	1000
C686	1000
L643	TEM2011
L645	TEM2011
L671	TEM2011
L672	TEM2011
R671	1K
R672	1K
R673	1K
R675	1K
P004	8P TERM
P603B	5P2.5mm
P605A	3P2.5mm
S601	EXT SW
GJ04	OPEN
GJ05	OPEN


VIDEO-3 E3
VIDEO-2 E2
VIDEO-1 E1
PH03
21 PIN S-VHS
PH02
21 PIN S-VHS
PH01
21 PIN FULL
S
GND
V OUT
C
SCART2 #8
SCART1 #8
L
R
L OUT
R OUT
V
Ys
G
B
V V1
R V1
L V1
RV12 680
RV13 680
LV07 PL-1
LV06 PL-1
CV16 1000
CV17 1000
CV18 1000
CV19 1000
GV06 SHORT
CV37 1000
RV32 75
LV37 OPEN
L676 PL-1
L677 PL-1
C673 1000
C674 1000
GV07 SHORT
R692 680
C678 1000
R679 22K
R S1
S S1
L S1
RV30 75
R693 680
R678 22K
C679 1000
RV61 1/2R100
CV66 16V100µ
RV64 75
CV67 16V470µ
RV63 1/2R8
RV77 1.8K
RV75 3.3K
RV76 22
CV77 16V10µ
CV42 NP2.2µ
RV41 100K
TV-V
LV05 OPEN
RV90 680
RV91 680
CV14 1000
CV15 1000
R677 22K
R676 22K
RV81 75
RV85 75
RV89 75
RV86 75
RV87 75
L682 PL-1
C681 1000
L684 PL-1
L685 PL-1
L683 PL-1
C682 1000
GV08 SHORT
GND


IQV01
TA1218N
I/O 3
I/O 2
I/O 1
C S2
R S2
S S2
GND
L S2
C S1
R S1
S S1
GND
L S1
V V1
R V1
L V1
TV-V
R
GND
L
DET SLCT
DET IN
R OUT2
L OUT2
O 4
GND
SCL
SDA
SYNC OUT
ADRS
V V2
L V2
Y IN
R V2
C IN
VCC
C OUT1
R OUT1
Y OUT1
L OUT1
V OUT1
R OUT TV
L OUT TV
O 5
V OUT2
E3
E2
E1
TV
SCART2 #8
SCART1 #8
+9V
SCL
SDA
SYNC-AV
SGV
SGA
Y-COMB
GND-Y
C COMB
TV-R
TV-L
GND
V-OUT
QV14 2SC1815Y
QV03 2SC1815Y
QV04 2SC1815Y
QV06 2SA1015Y
QV10 2SC1815Y
QV11 2SA1015Y
QV08 2SC1815Y
QV07 2SC2878A
QV12 2SC1815Y
LV09 PL-10
LV42 PL-10
LV41 OPEN
LV40 OPEN
LV08 PL-33
LV03 TEM2028K
LV04 OPEN
LV05 OPEN
GJ10 OPEN
GJ13 OPEN
GJ14 OPEN
DS01 OPEN
DS02 OPEN
DS03 OPEN
DS04 OPEN
GJ06 SHORT
GJ07 SHORT
GJ08 SHORT
GJ09 SHORT
GJ15 SHORT
GJ16 SHORT
GV11 SHORT
GV12 SHORT
GV13 SHORT
GV14 SHORT
GV15 SHORT
GV16 SHORT
GV17 SHORT
GV18 SHORT
CV08 16V1000μ
CV09 16V10μ
CV10 NP16V10μ
CV11 330P
CV12 25VC0.1
CV13 0.01
CV20 CH33
CV26 OPEN
CV39 16V100μ
CV40 0.01
CV43 OPEN
CV44 OPEN
CV45 OPEN
CV65 16V100μ
CV68 16V470μ
RV09 100
RV10 100
RV11 10K
RV12 12K
RV18 12K
RV35 10K
RV78 220
RV79 68
RV96 390
RV97 100
RV16 470
RV19 100
RV92 10
RV93 100K
RV94 10K
RV95 2.2K
RV65 1/2R100
RV66 100
RV67 1/2R82
RV68 75
RV70 100
RV71 4.7K
RS11 100
RS13 100
RS14 100
RS43 680
RS44 680
No.1197


U902A SIGNAL BOARD PB8352X (32MW8DG)
PB8352Y (28MW8DG)
PV11A
PV10A
PV12A
PV10B
12P B/B PLUG
PV12B
9P B/B PLUG
FRONT AV
COMB
M TUNER
S S2
GND
C TRAP
SHORT
C S2
L S2
R S2
21 PIN Ys
21 PIN R
21 PIN G
21 PIN B
NC
AV-C
SDA
SCL
AV-Y
GND-V
AV-V
C-COMB
GND-Y
Y-COMB
GND-TV-V
TV-V
TV-R
TV-L
+9V-1
AV-L
AV-R
SYNC-AV1
A-MUTE
SGA
SGV
E3 DET
LV01 OPEN
GJ02
+9V
SGV
SGA
RV78 220
GND
AV-C
AV-R
AV-L
AV-Y
AV-V
GND-V
RS13 100
RS14 100
GJ14 OPEN
GJ13 OPEN
RS35 22K
QS08 2SC2878A
RS36 22K
QS09 2SC2878A
RS43 680
RS44 680
DS04 OPEN
CS22 16V10μ
RS01 680
RS37 100K
CS23 16V10μ
RS02 680
RS38 100K
CV26 OPEN
GV18 SHORT
CV23 16V100μ
LV43 PL-10
RV23 1/2R100
CV24 0.01
QV09 2SC1815Y
RV25 100
V-AV
CV25 16V470μ
RV27 75
RV26 180
R OUT
L OUT
CS17 16V10μ
RS27 100K
CS18 16V10μ
RS28 100K
QS05 2SC2878A
RS29 22K
QS06 2SC2878A
RS30 22K
QS07 RN2004
RS31 10K
CS19 0.47μ
RS32 100K

7 8 9 10 1

32MW8DG
28MW8DG 4/8
PK2760

10 11 12

D E F G H

SCHEMATIC DIAGRAM MODEL : 32MW8DG (5/8)
28MW8DG

030-9822

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 chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a 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 BRIGHTNESS control is almost in maximum position. Set 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. The circuits are subject to change without notice.
3. ◆ : 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 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.

U101B DIGITAL-INPUT BOARD PB8210Y-2

U101A DOLBY DIGITAL BOARD PB8210Y-1

U104 TEXT BOARD PB7922W (SAME AS 28MW7DB)

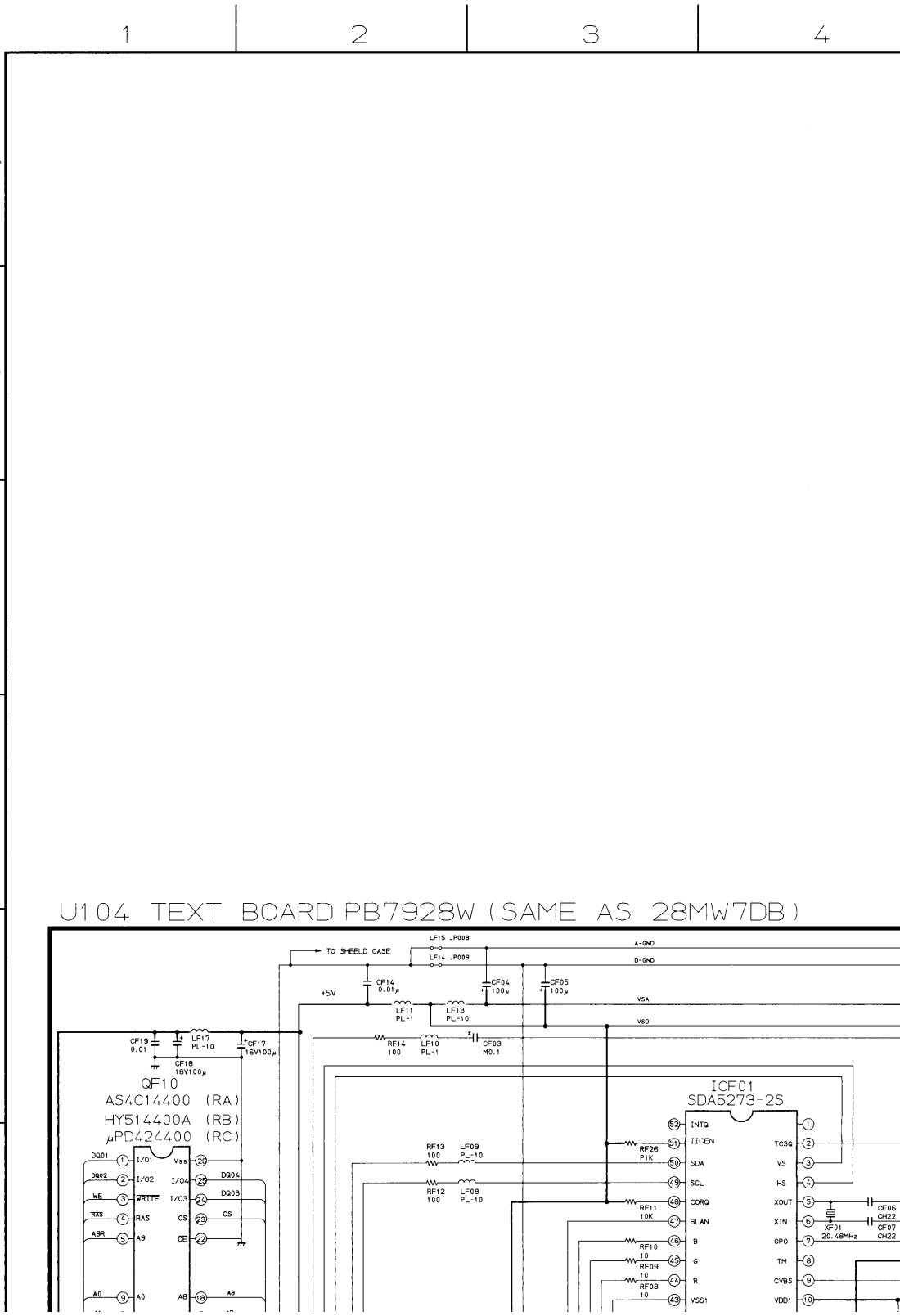
SCHEMATIC DIAGRAM MODEL : 32MW8DG (5/8)
28MW8DG

030-9822

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 C

1. Voltages read volts, colour b
2. All waveforms
3. Waveforms ar
4. Make sure th BRIGHTNESS picture.



OBSERVATION OF VOLTAGES AND WAVEFORMS

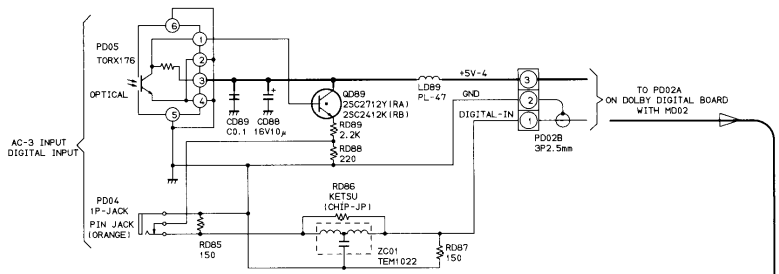
1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

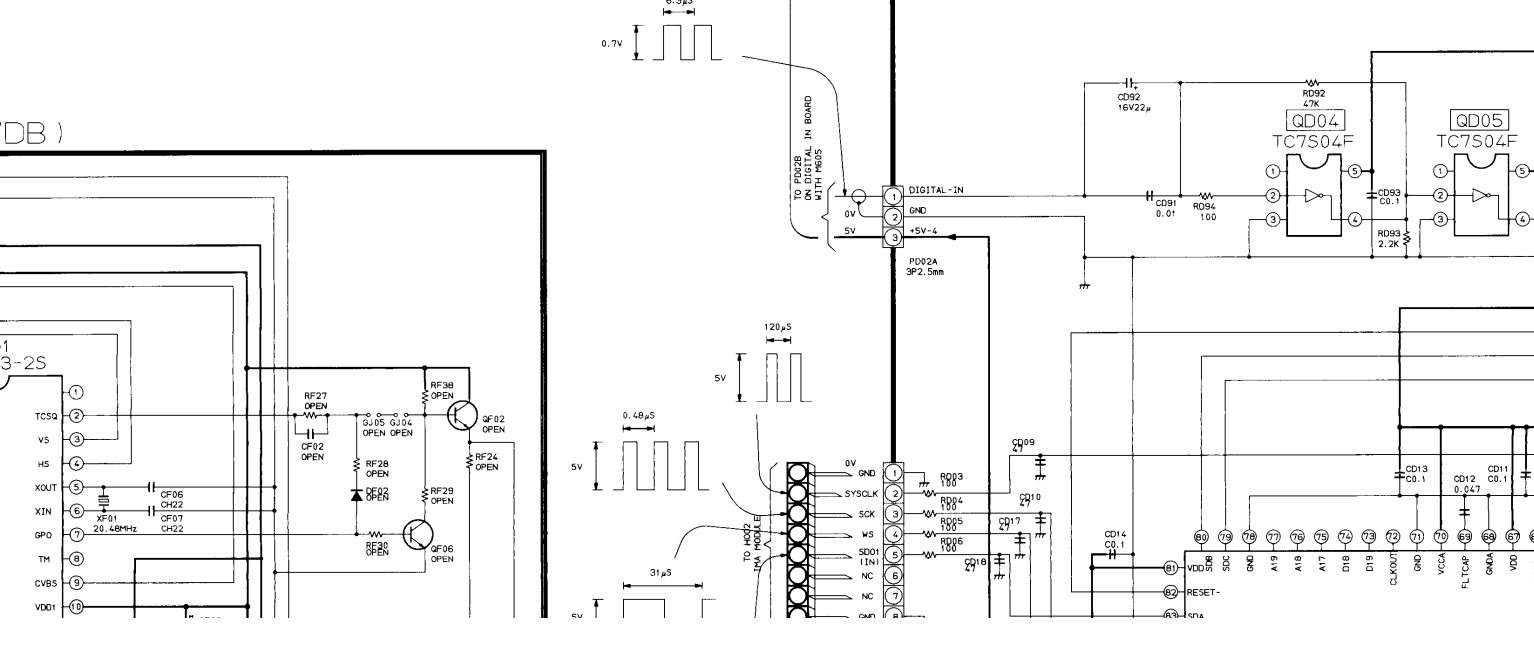
1. D.C. resistance value of a principal transf
   gram. These are measured for separated fr
2. The circuits are subject to change without
3. ⊖ : Solder links.

4 | 5 | 6 | 7 | 8 | 9

U101B DIGITAL-INPUT BOARD
PB8210Y-2



U101A DOLBY DIGITAL BOARD PB8210Y-1



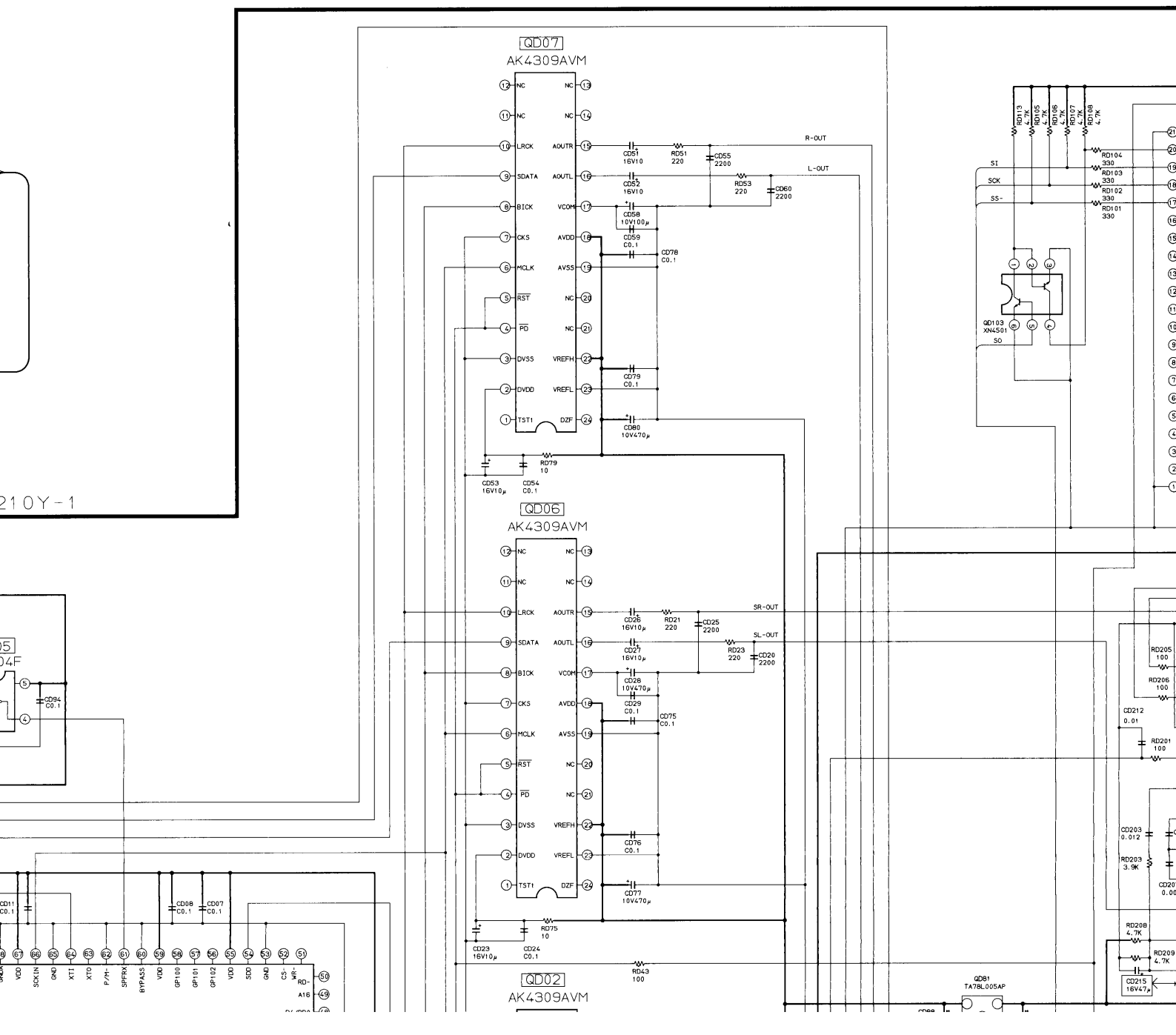
cipal transformer is shown in this schematic dia-
eparated from the circuit.
e without notice.

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 expres sed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expres sed in μH, and the values less than 1 in H.

9 | 10 | 11 | 12 | 13 | 14

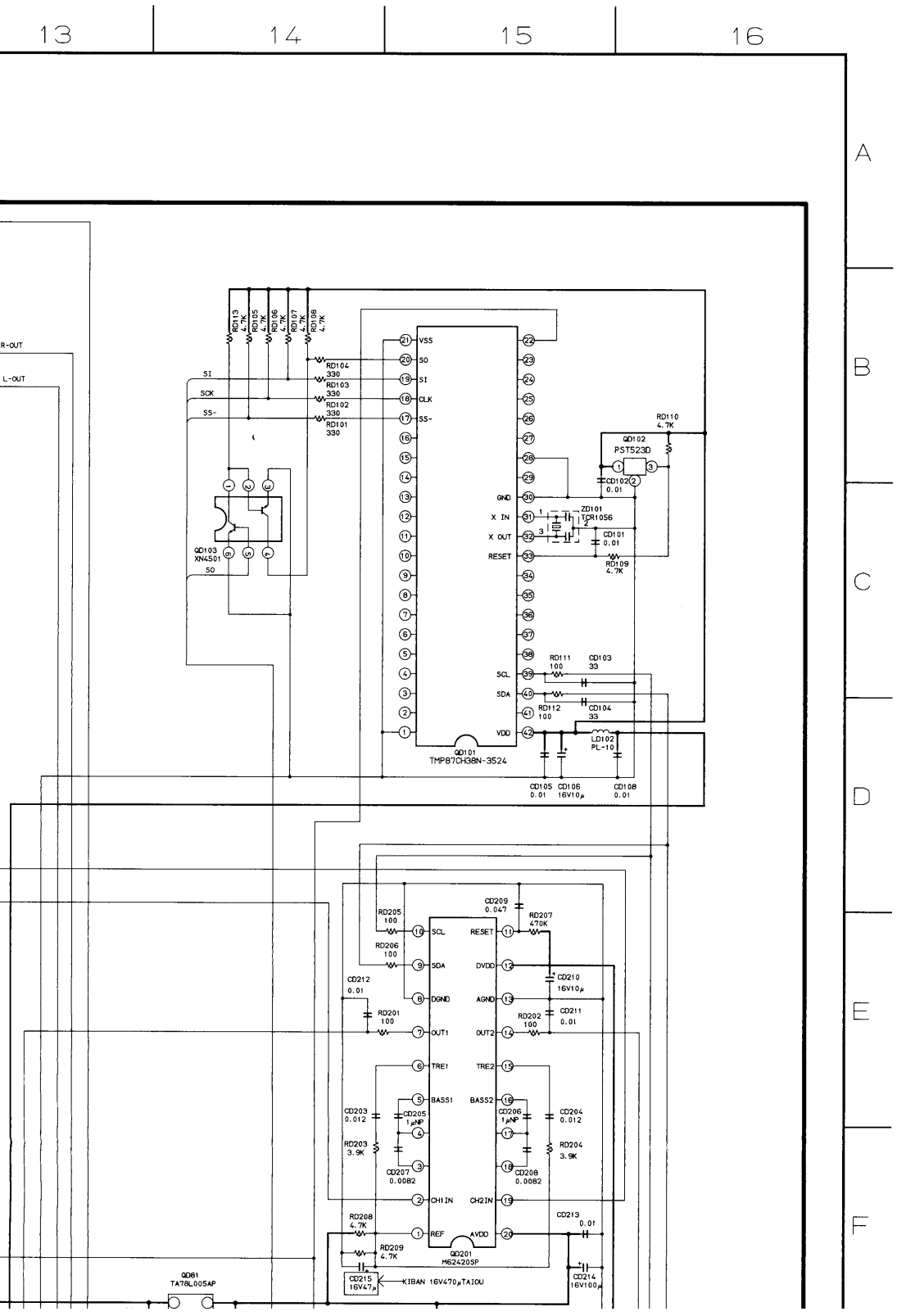


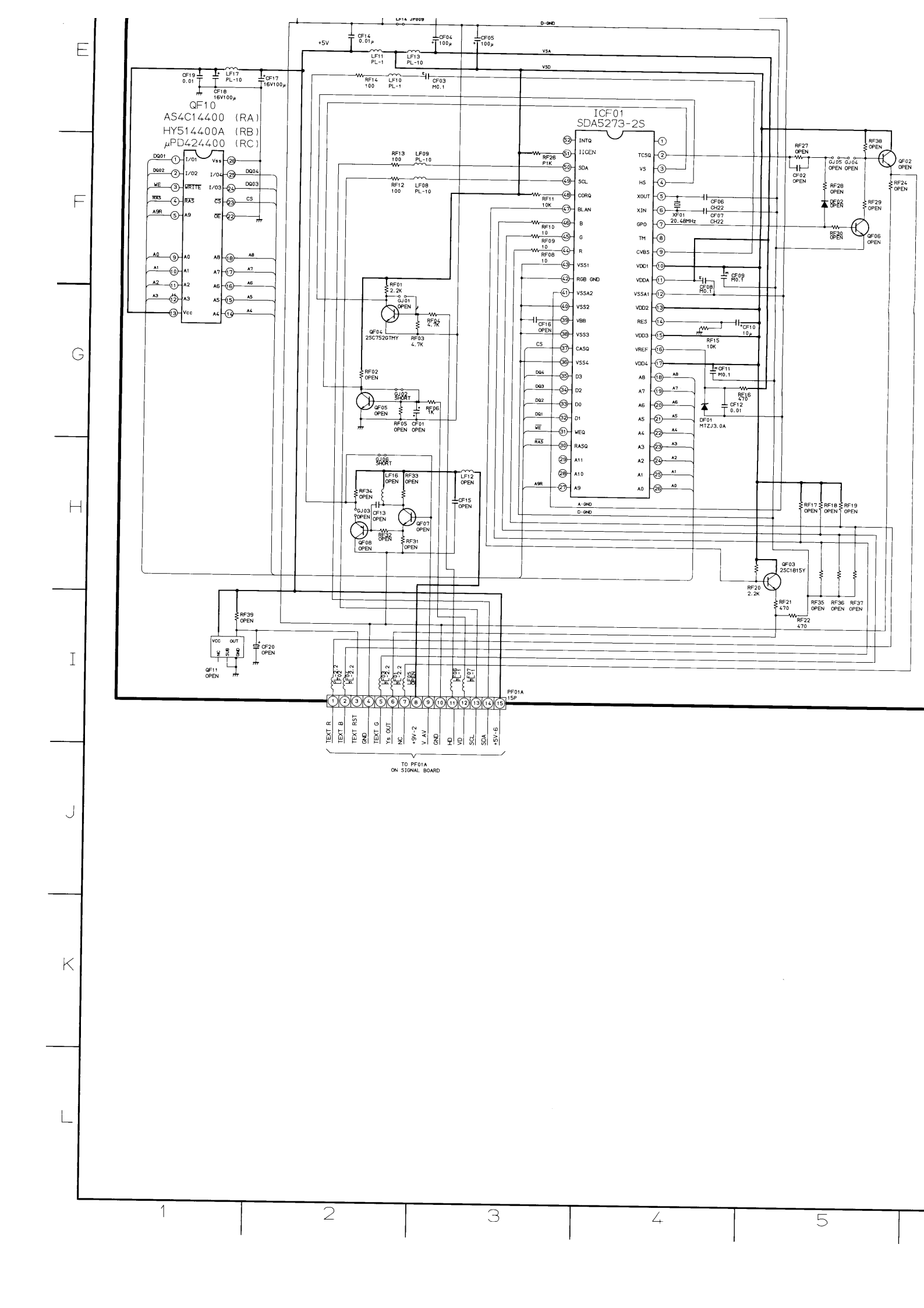
CITOR and INDUCTOR

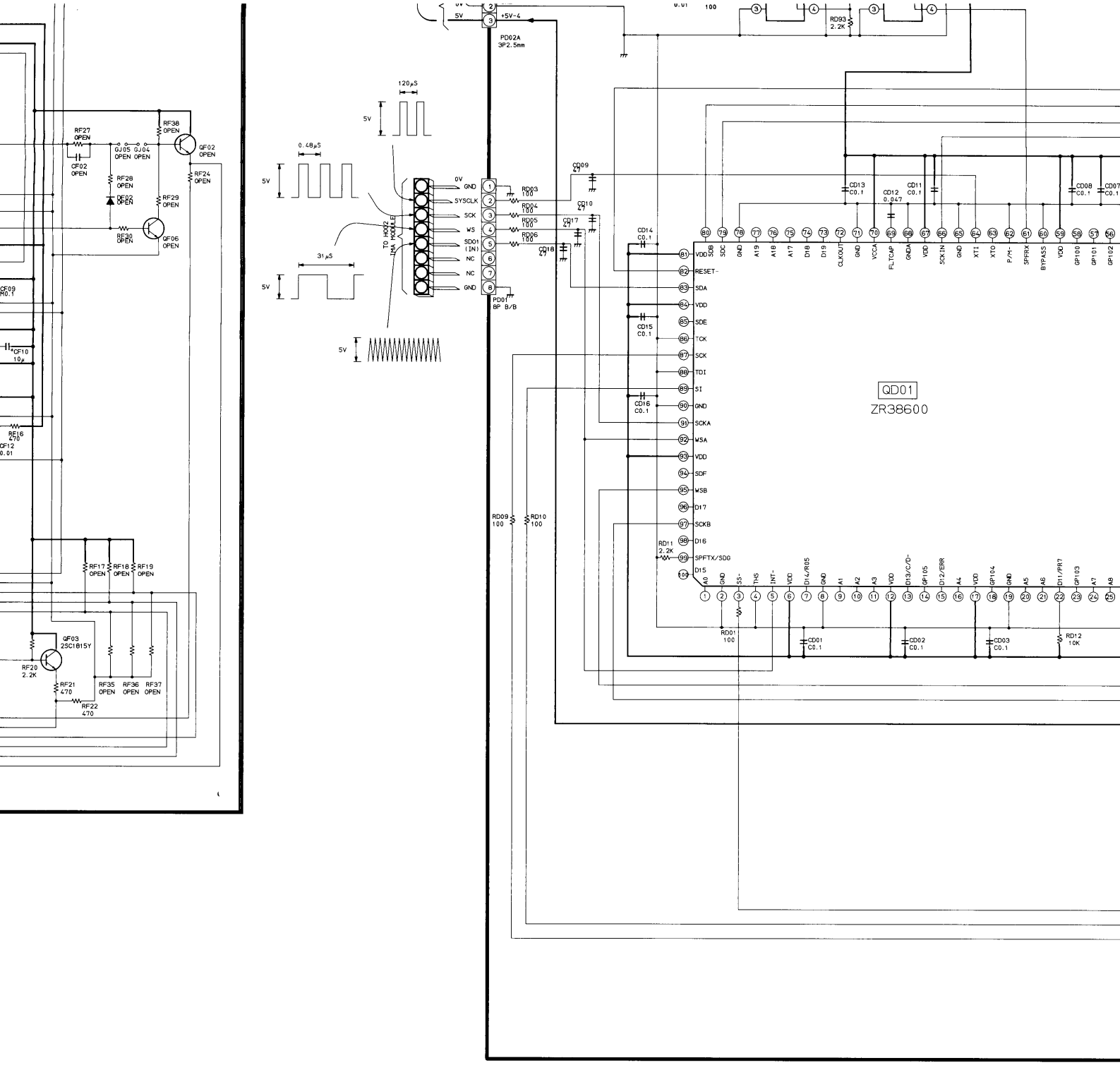
=1,000, M=1,000,000

nematic, all capacitor values less than 1 are expres-
than 1 in pF.

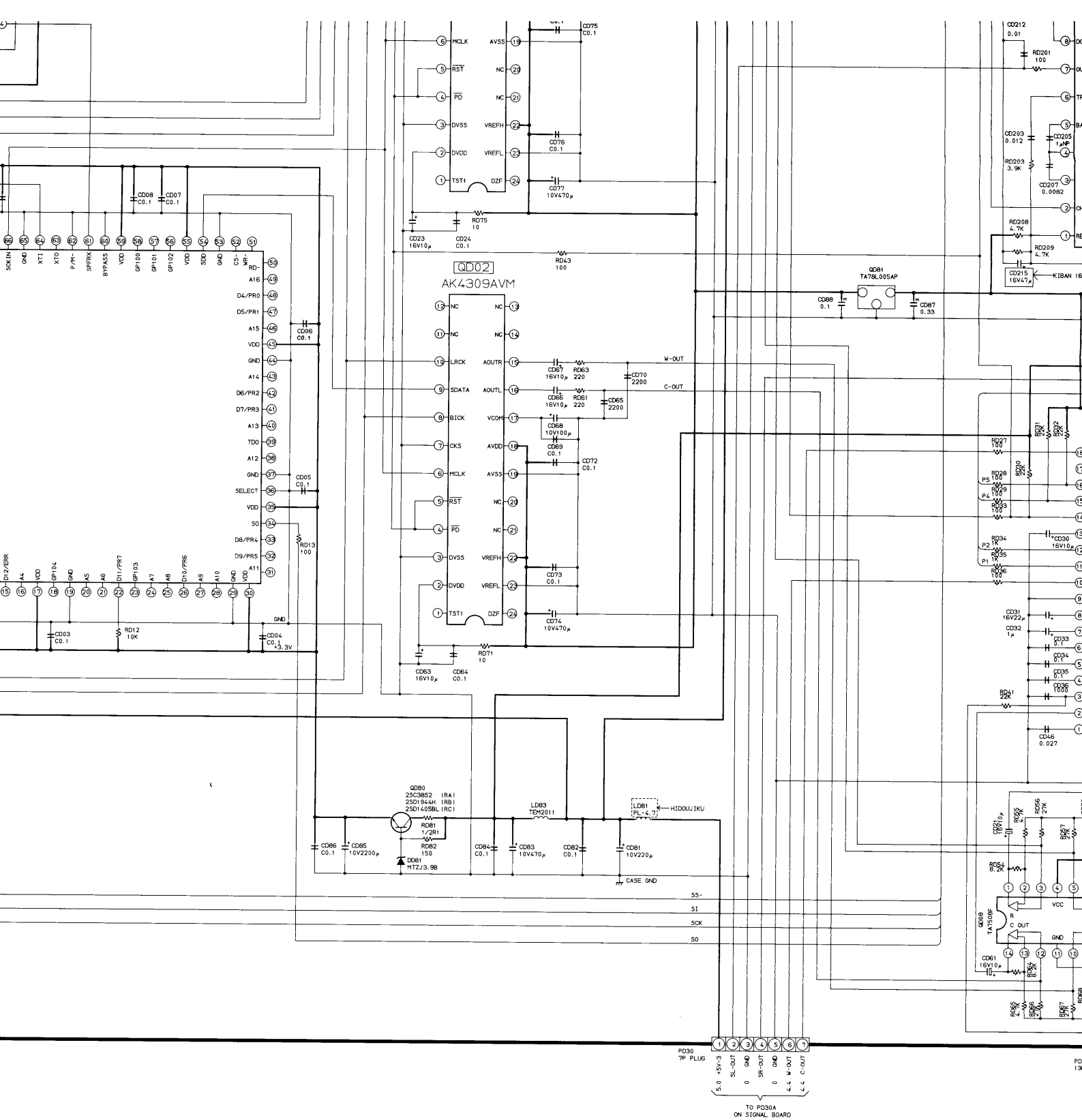
ematic, all inductor values more than 1 are expres-
han 1 in H.




QF10
AS4C14400 (RA)
HY514400A (RB)
μPD424400 (RC)
ICF01
SDA5273-2S
XF01
20.48MHz
QF01
QF02
QF03
QF04
QF05
QF06
QF07
QF08
DF01
MTZJ3.0A
PF01A
15P
TO PF01A
ON SIGNAL BOARD
TEXT R
TEXT B
TEXT RST
GND
TEXT G
Ys OUT
NC
+9V-2
V.AV
GND
HD
VD
SCL
SDA
+5V-6
+5V
D-GND
A-GND
VSA
VSD

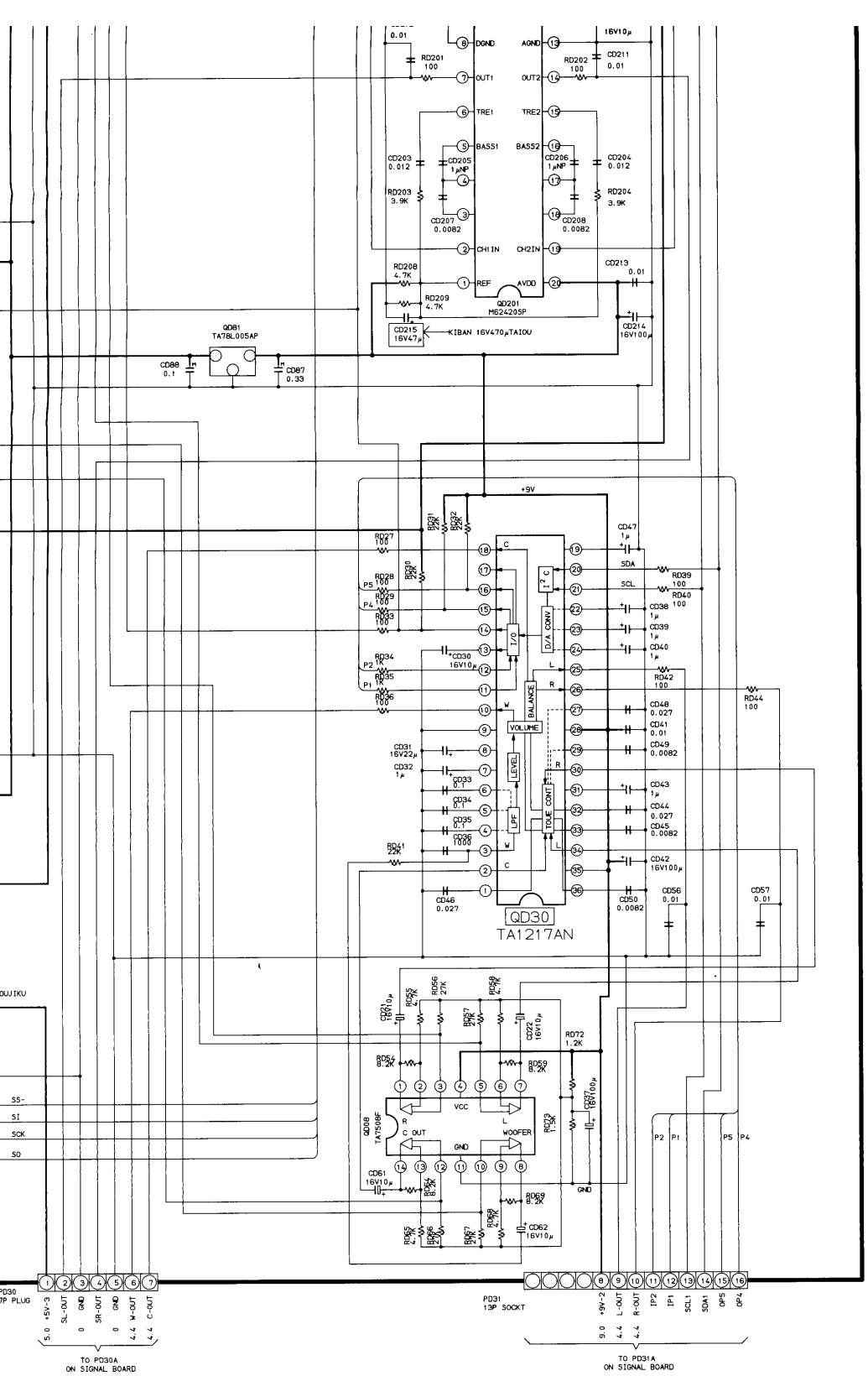

QD01
ZR38600
PD02A
3P2.5mm
PD01
BP B/B
TO MODULE
1MA MODULE
RD93
2.2K
RD01
100
RD11
2.2K
RD12
10K
RF27 OPEN
RF38 OPEN
QF02 OPEN
RF28 OPEN
RF29 OPEN
RF24 OPEN
RF30 OPEN
QF06 OPEN
RF17 OPEN
RF18 OPEN
RF19 OPEN
QF03 2SC1815Y
RF20 2.2K
RF21 470
RF22 470
RF35 OPEN
RF36 OPEN
RF37 OPEN
*CF10 10μ
RF16 470
CF12 0.01
CF09 NO.1

5	6	7	8	9	1



UNIT SN.	
TEXT	SN.23782157
DOLBY-D	SN.23782134
DIG-IN	SN.23782135
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



R SIDE PARTS
SN.
SN.
SN.
SN.
SN.

32MW8DG
28MW8DG 5/8
PK2761

SCHEMATIC DIAGRAM MODEL : 32MW8DG (6/8)
28MW8DG

030-9822

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 chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a 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 BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

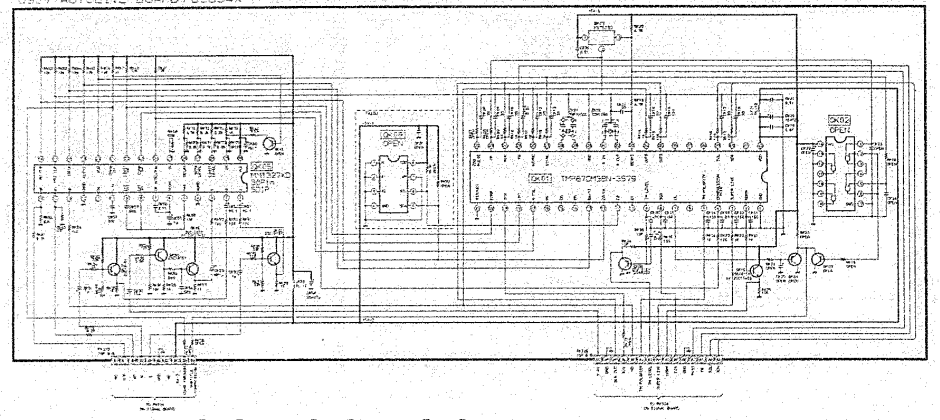
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⏚ : Solder links.

EXPRESSION

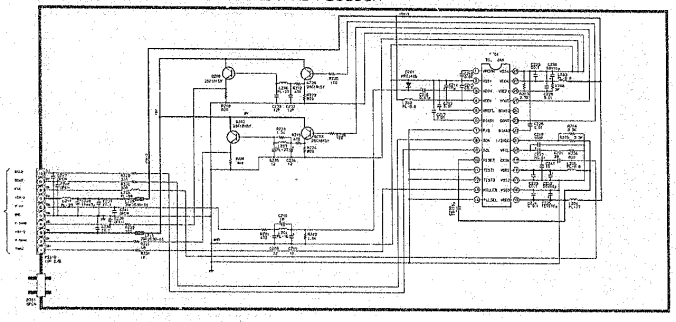
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other 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.

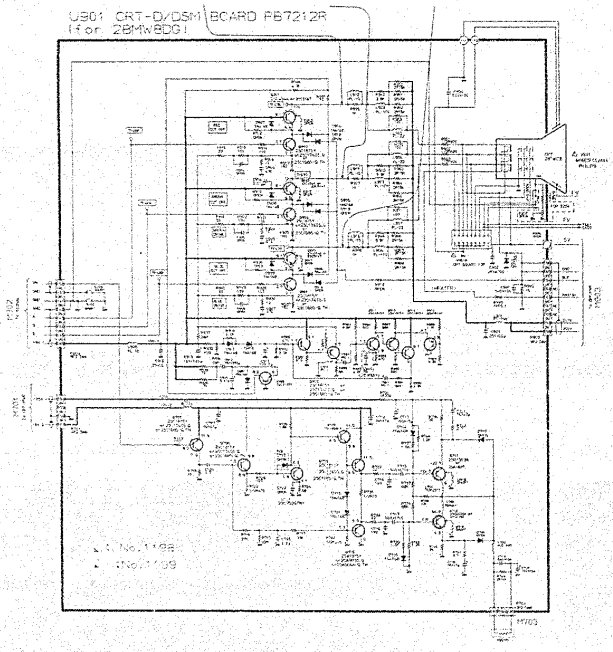
U907 AUTOCLIVE BOARD PB8354X



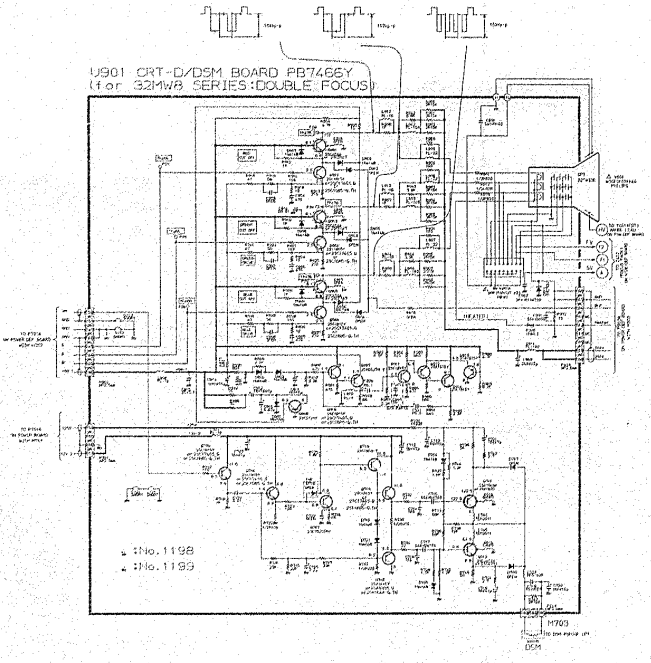
U906 DIGITAL-COMB-FILTER BOARD PB8353X



U901 CRT-D/DSM BOARD PB7212R
(for 28MW8DG)



U901 CRT-D/DSM BOARD PB7466Y
(for 32MW8 SERIES:DOUBLE FOCUS)



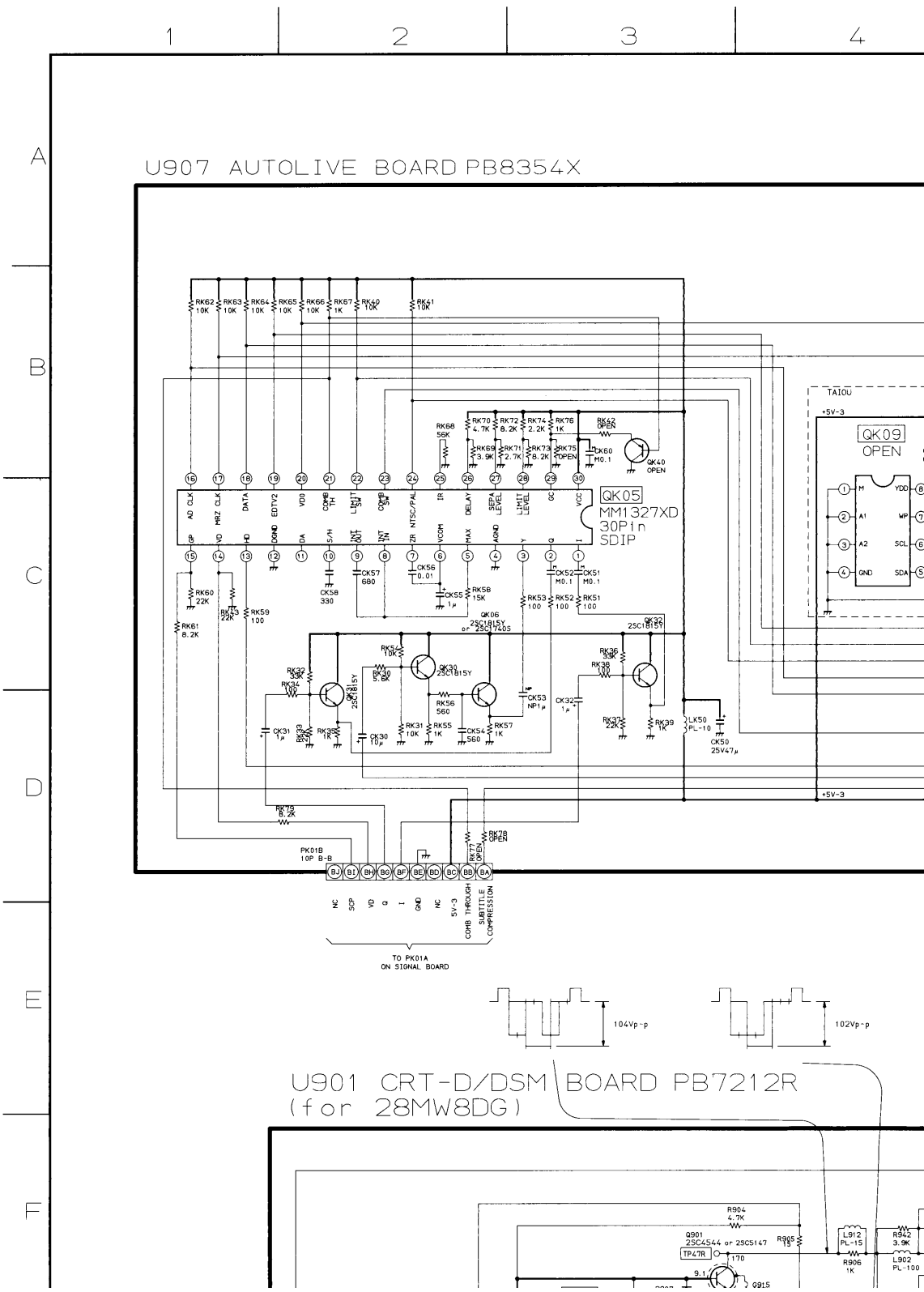
SCHEMATIC DIAGRAM MODEL : 32MW8DG (6/8)
28MW8DG

030-9822

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

1. Voltages read volts, colour
2. All waveform
3. Waveforms a
4. Make sure th BRIGHTNESS picture.

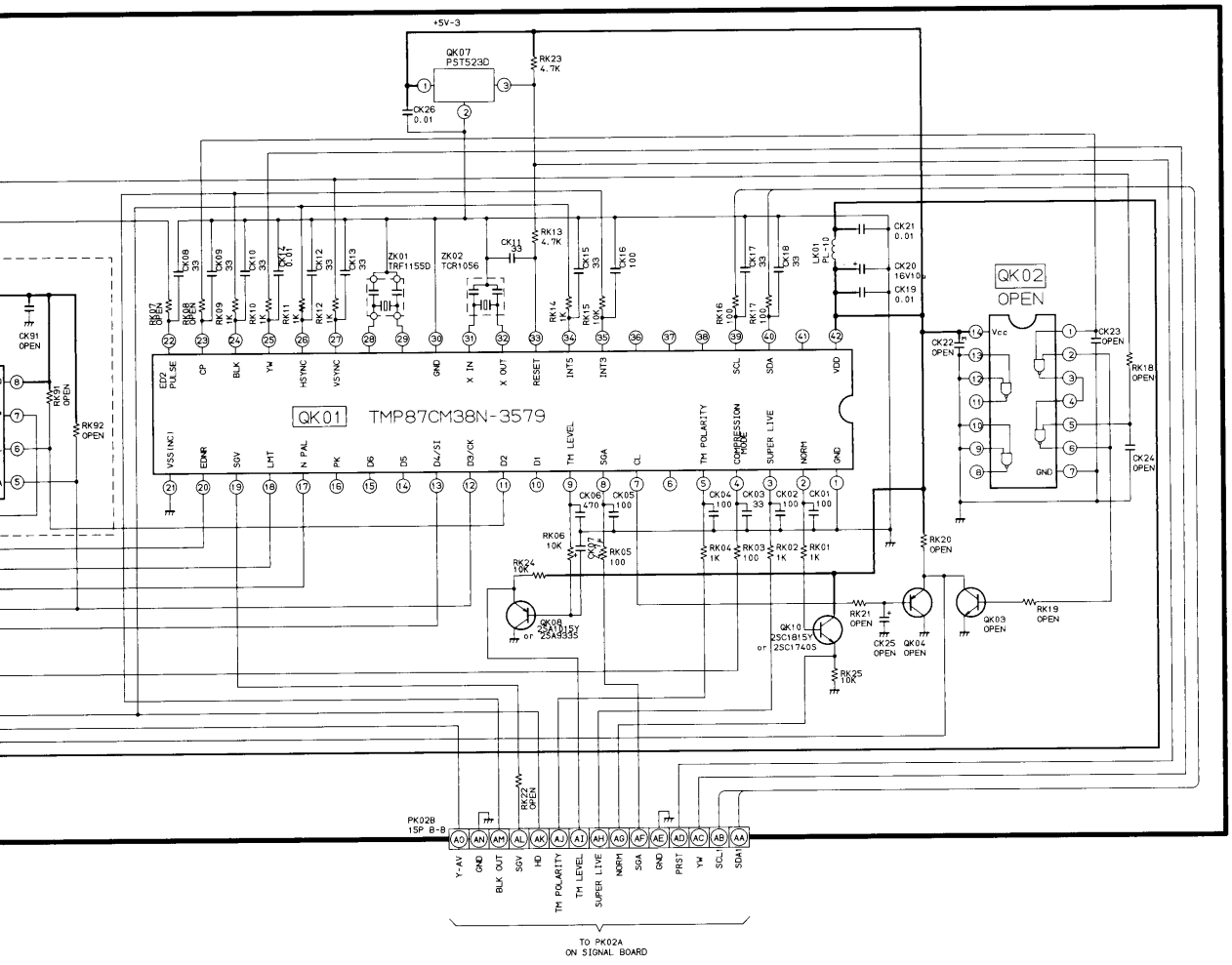


N OF VOLTAGES AND WAVEFORMS

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r bar signal. Voltages reading may vary ±20%.
ms are taken using a wide band oscilloscope and a low capacity probe.
s are taken using a standard colour bar signal.
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NOTES:

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



pal transformer is shown in this schematic dia-
parated from the circuit.
e without notice.

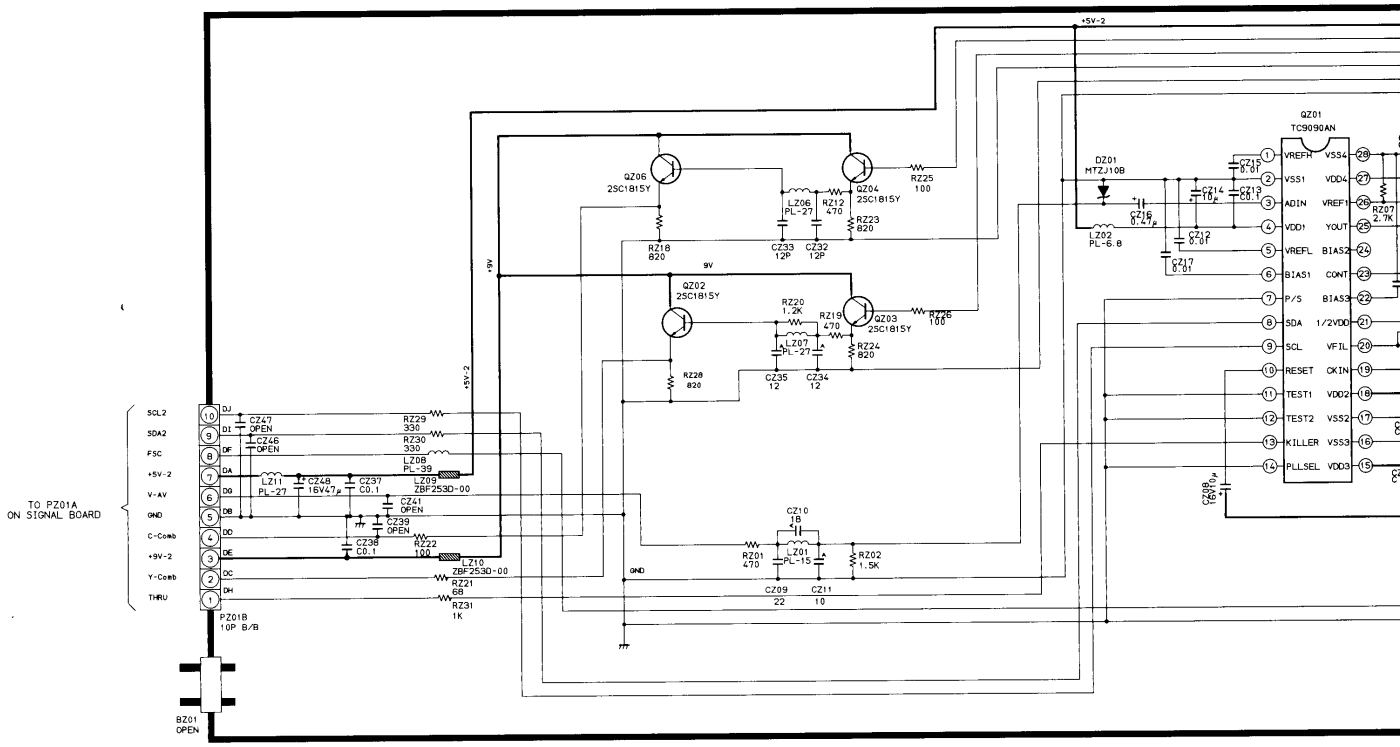
EXPRESSION

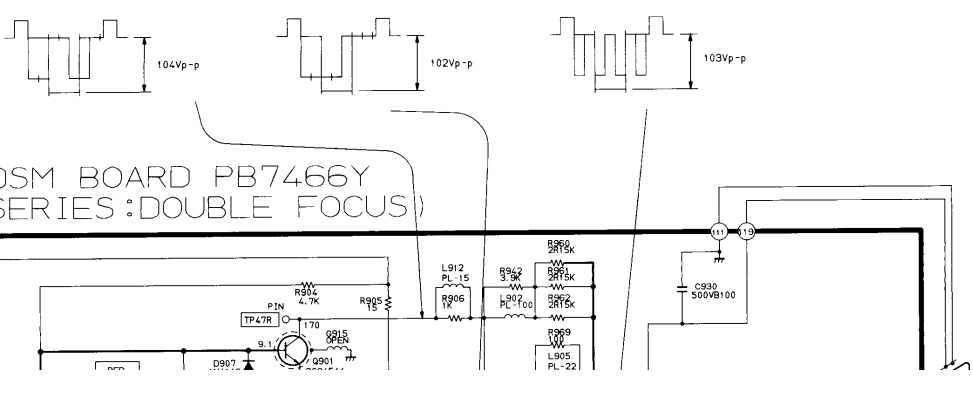
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

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.

9 | 10 | 11 | 12 | 13 | 14

U906 DIGITAL-COMB-FILTER BOARD PB8353X





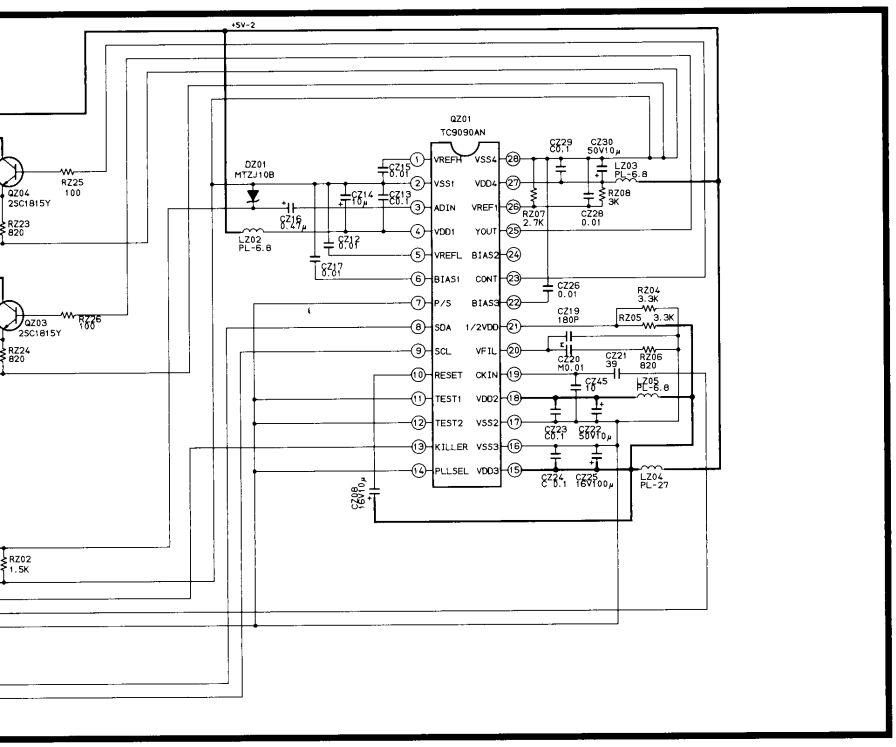
APACITOR and INDUCTOR

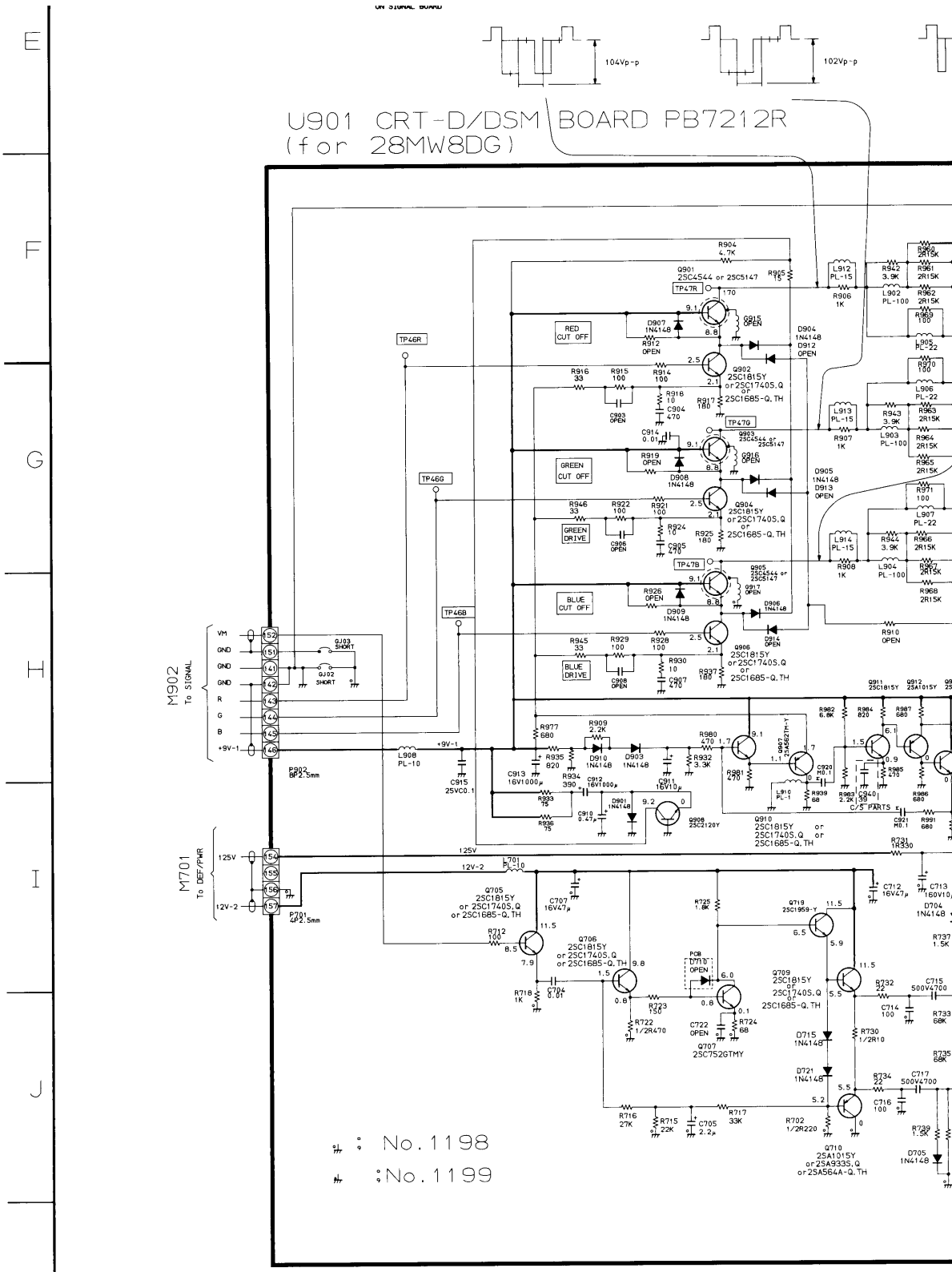
n, k=1,000, M=1,000,000
n schematic, all capacitor values less than 1 are expres-
ore than 1 in pF.
schematic, all inductor values more than 1 are expres-
ess than 1 in H.

13 14 15 16

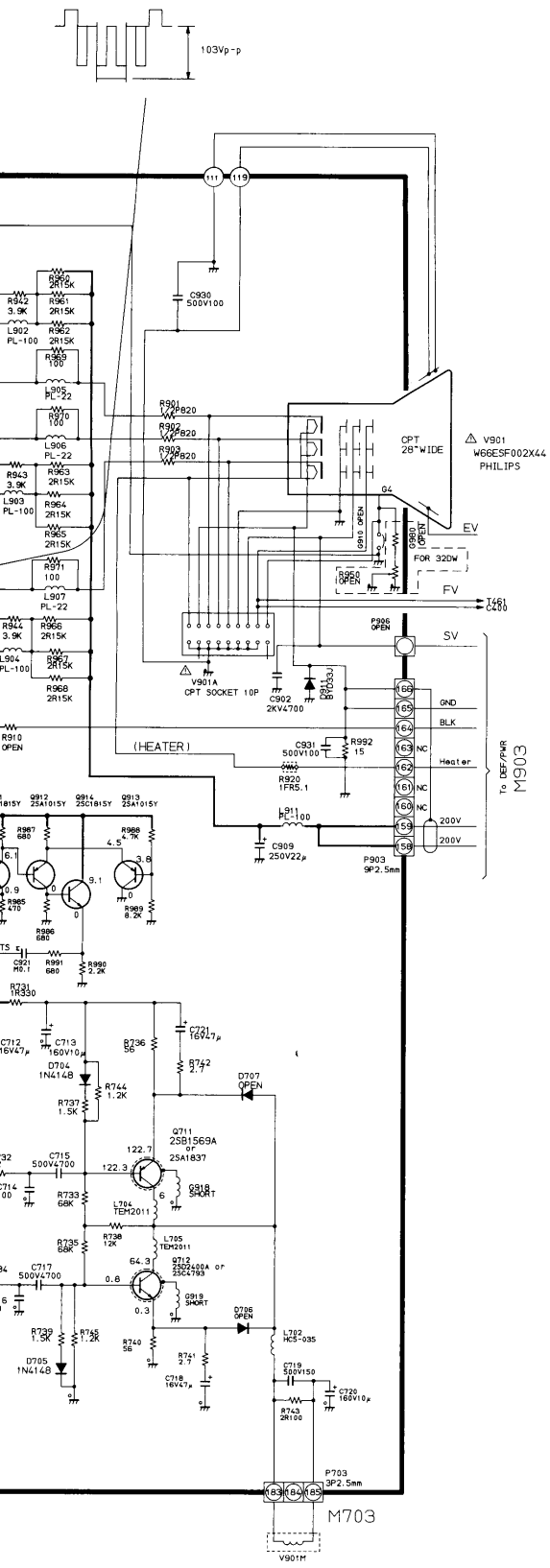
A B C D E F

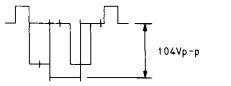
D PB8353X



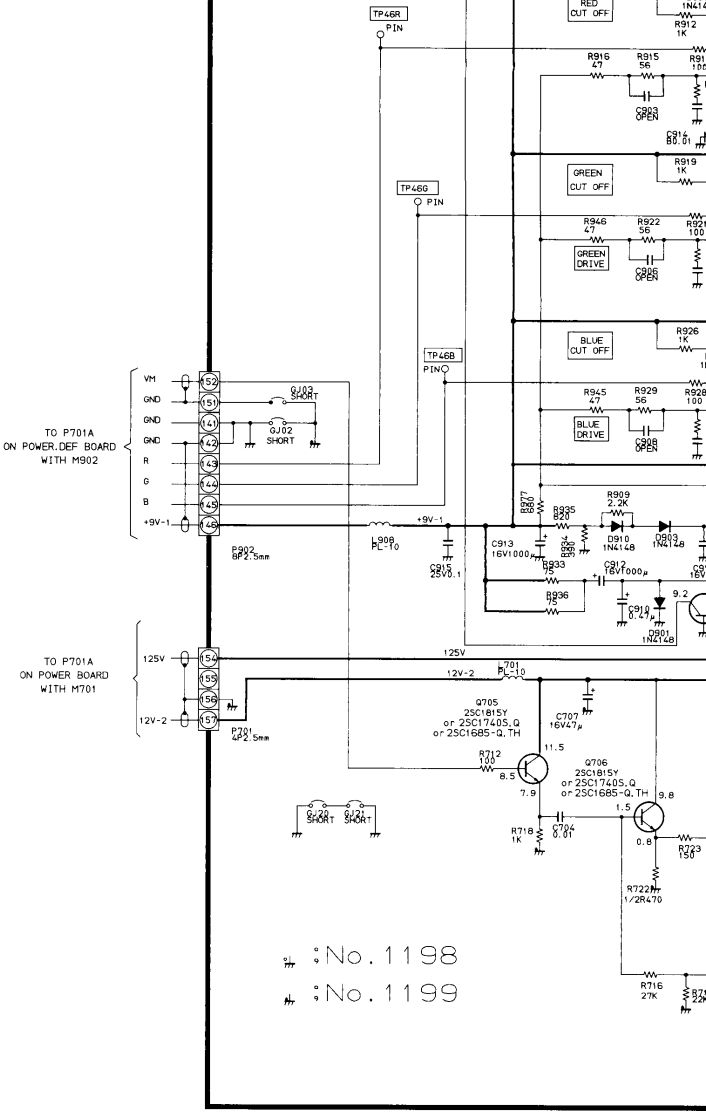

104Vp-p
102Vp-p
U901 CRT-D/DSM BOARD PB7212R
(for 28MW8DG)
M902
To SIGNAL
M701
To DEF/PWR
VM
GND
GND
GND
R
G
B
+9V-1
125V
12V-2
TP46R
TP46G
TP46B
TP47R
TP47G
TP47B
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
GREEN DRIVE
BLUE DRIVE
Q901 2SC4544 or 2SC5147
Q902 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q903 2SC4544 or 2SC5147
Q904 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q905 2SC4544 or 2SC5147
Q906 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q907 2SA1015Y
Q908 2SC2120Y
Q909 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q910 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q911 2SC1815Y
Q912 2SA1015Y
Q705 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q706 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q707 2SC752GTMY
Q709 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q710 2SA1015Y or 2SA933S,Q or 2SA564A-Q,TH
Q719 2SC1959-Y
C/S PARTS
No.1198
No.1199

ON SIGNAL BOARD

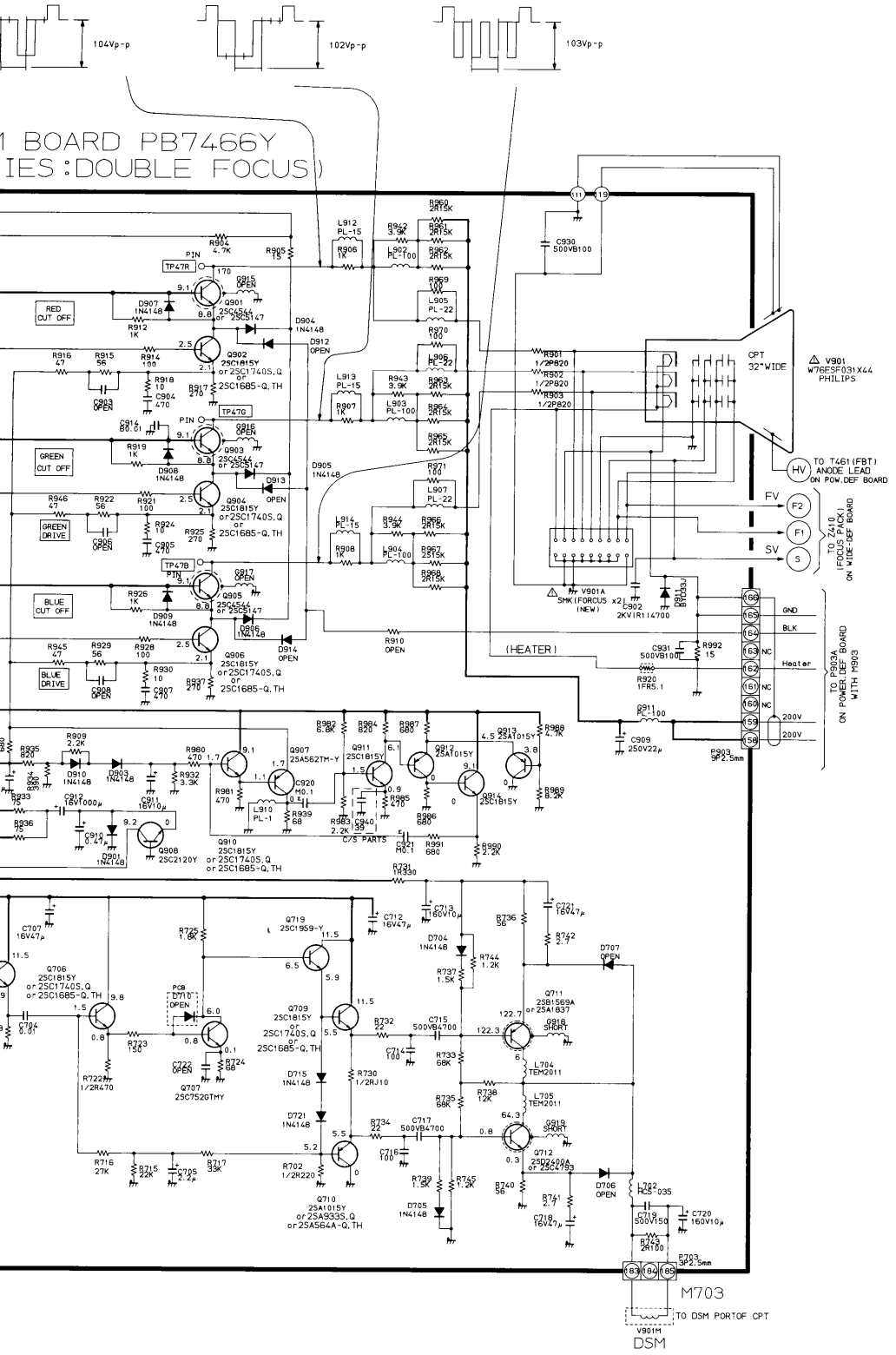




U901 CRT-D/DSM BOARD P
(for 32MW8 SERIES:DOUBL



5	6	7	8	9



UNIT SN.	
AUTOLIVE	SN. 23782375
COMB	SN. 23782374
28CRT-D	SN. 23782514
32CRT-D	SN. 23782392

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

001
F031X44
LIPS

461 (FBT)
K LEAD
W.DEF BOARD

(FOCUS PACK)
ON WIDE-DEF BOARD

ON POWER DEF BOARD
WITH M903

PPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

32MW8DG
28MW8DG 6/8
PK2762

E
F
G
H
I
J
K
L

13 14 15 16

SCHEMATIC DIAGRAM MODEL : 32MW8DG (7/8)
28MW8DG

030-9822

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 chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a 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 **BRIGHTNESS** control is almost in maximum position. Set other controls for best picture.

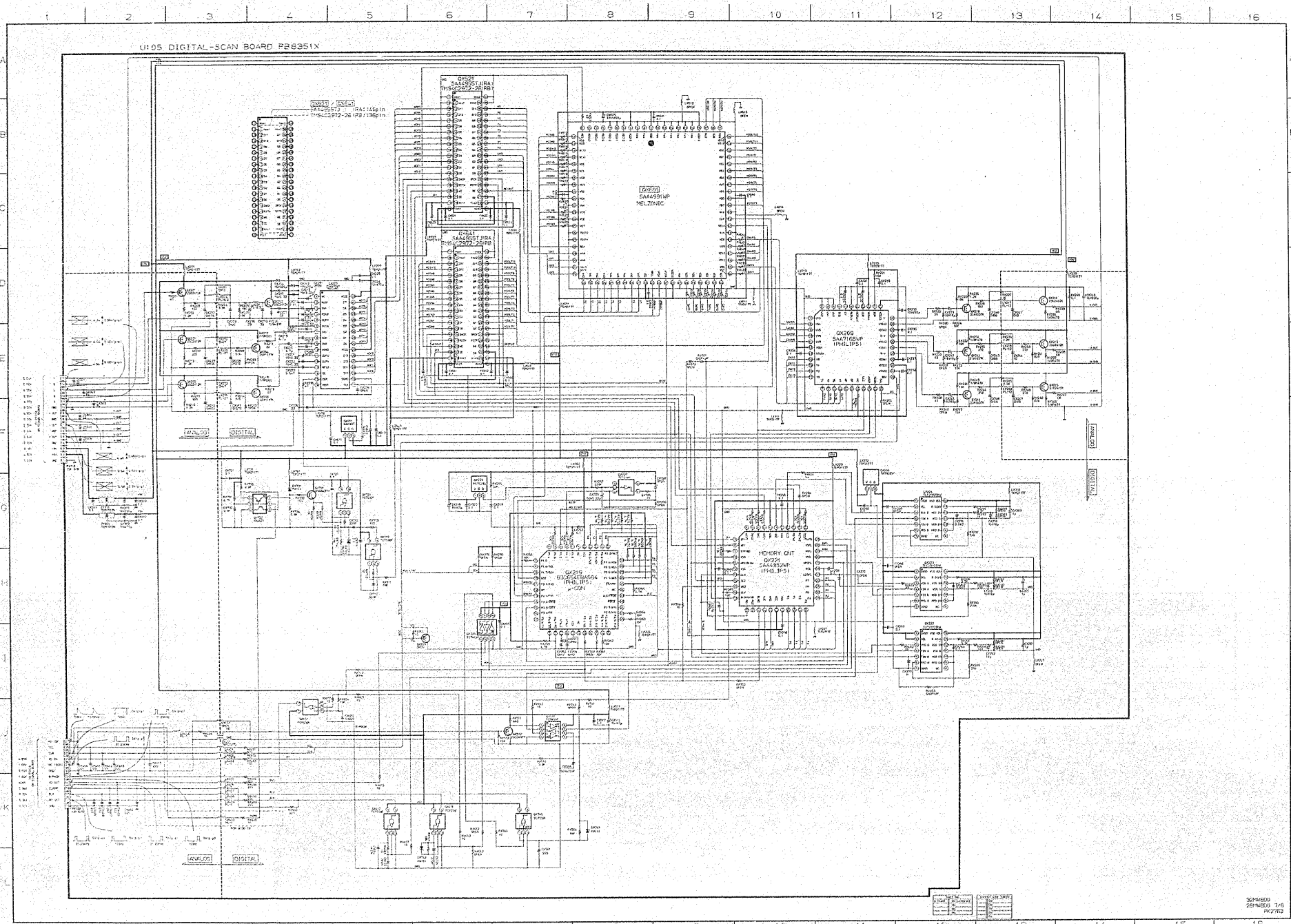
NOTES:

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



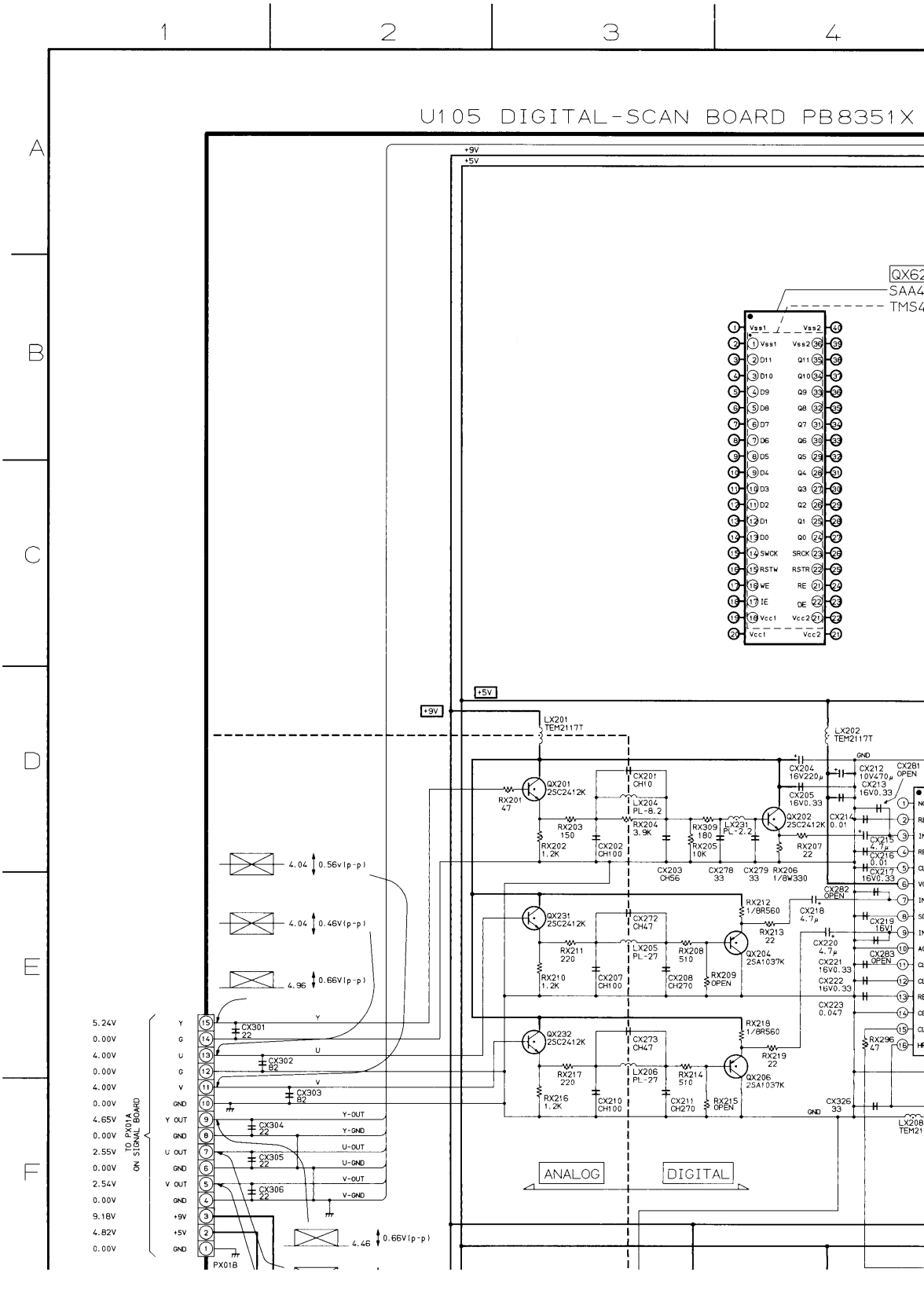
SCHEMATIC DIAGRAM MODEL : 32MW8DG (7/8)
28MW8DG

030-9822

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

1. Voltages read w volts, colour bar
2. All waveforms a
3. Waveforms are
4. Make sure that BRIGHTNESS co picture.



ERVATION OF VOLTAGES AND WAVEFORMS

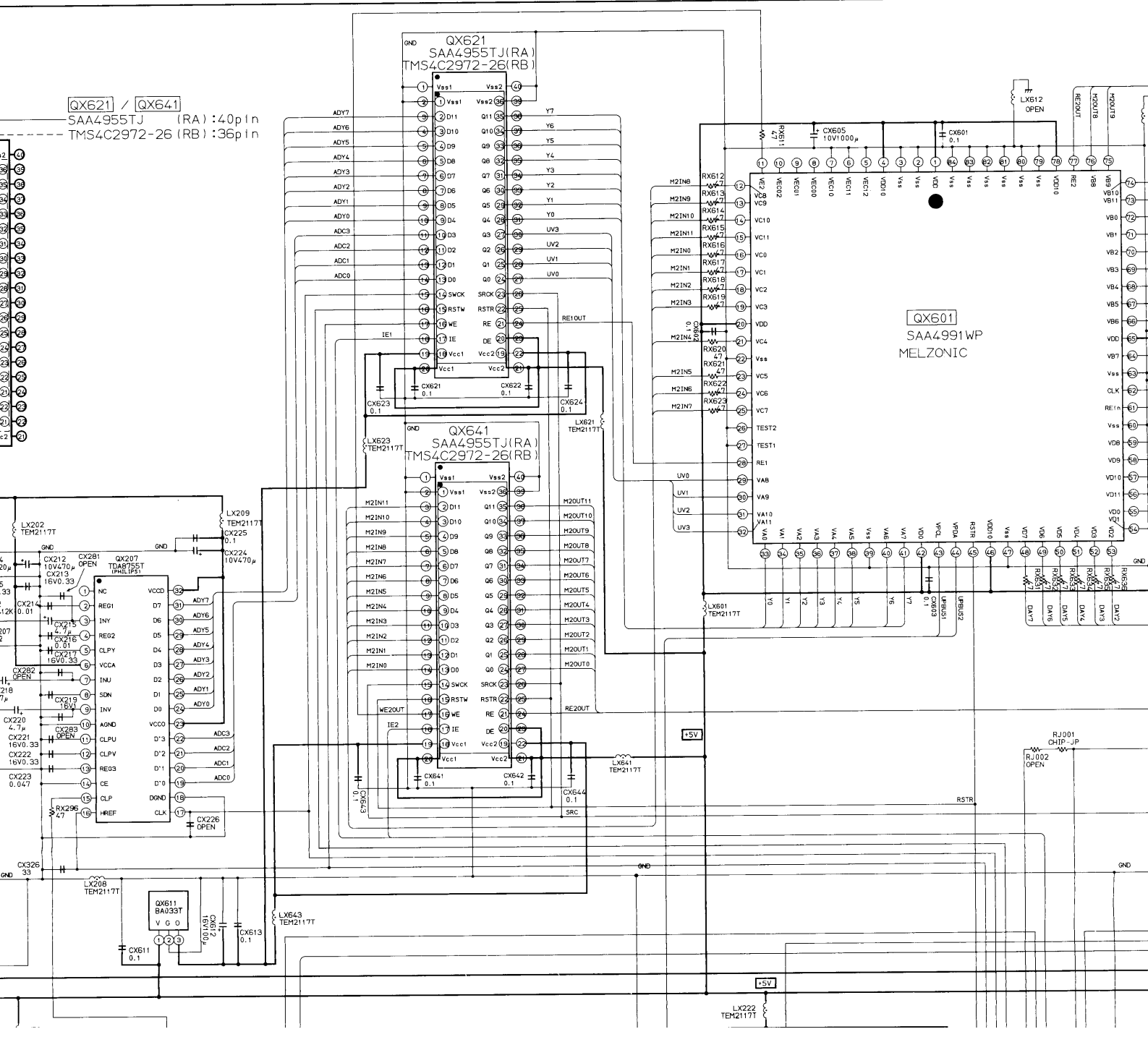
ltages read with VTVM from point shown to chassis ground, line voltage 220
ts, colour bar signal. Voltages reading may vary ±20%.
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aveforms are taken using a standard colour bar signal.
ake sure that CONTRAST and COLOUR controls are in mid position and
IGHTNESS control is almost in maximum position. Set other controls for best
ture.

NOTES:

1. D.C. resistance value of a principal transformer
   gram. These are measured for separated from the
2. The circuits are subject to change without notice.
3. ⬬ : Solder links.

4 5 6 7 8 9

B8351X



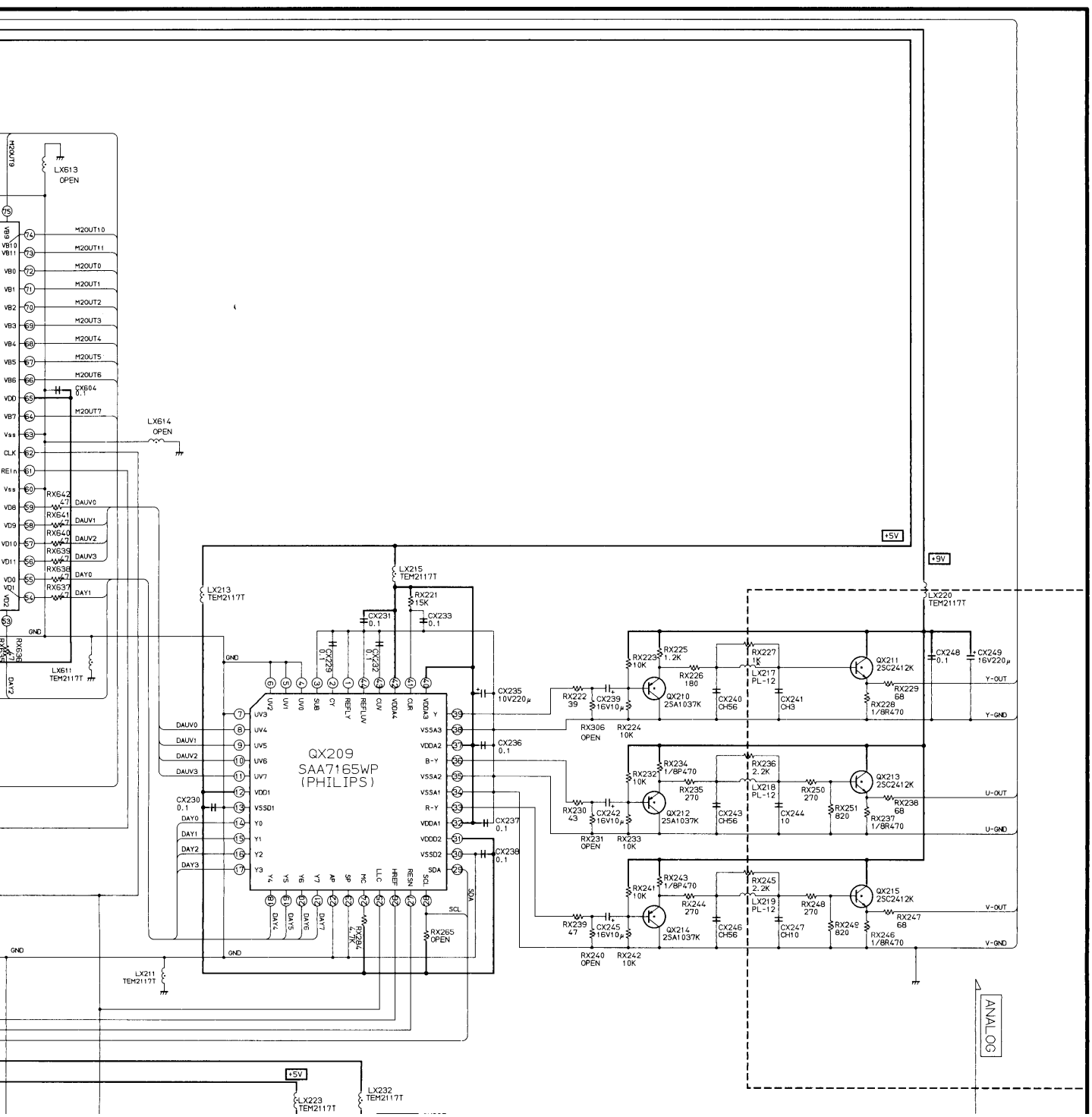
EXPRESSION

former is shown in this schematic dia-
rom the circuit.
notice.

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

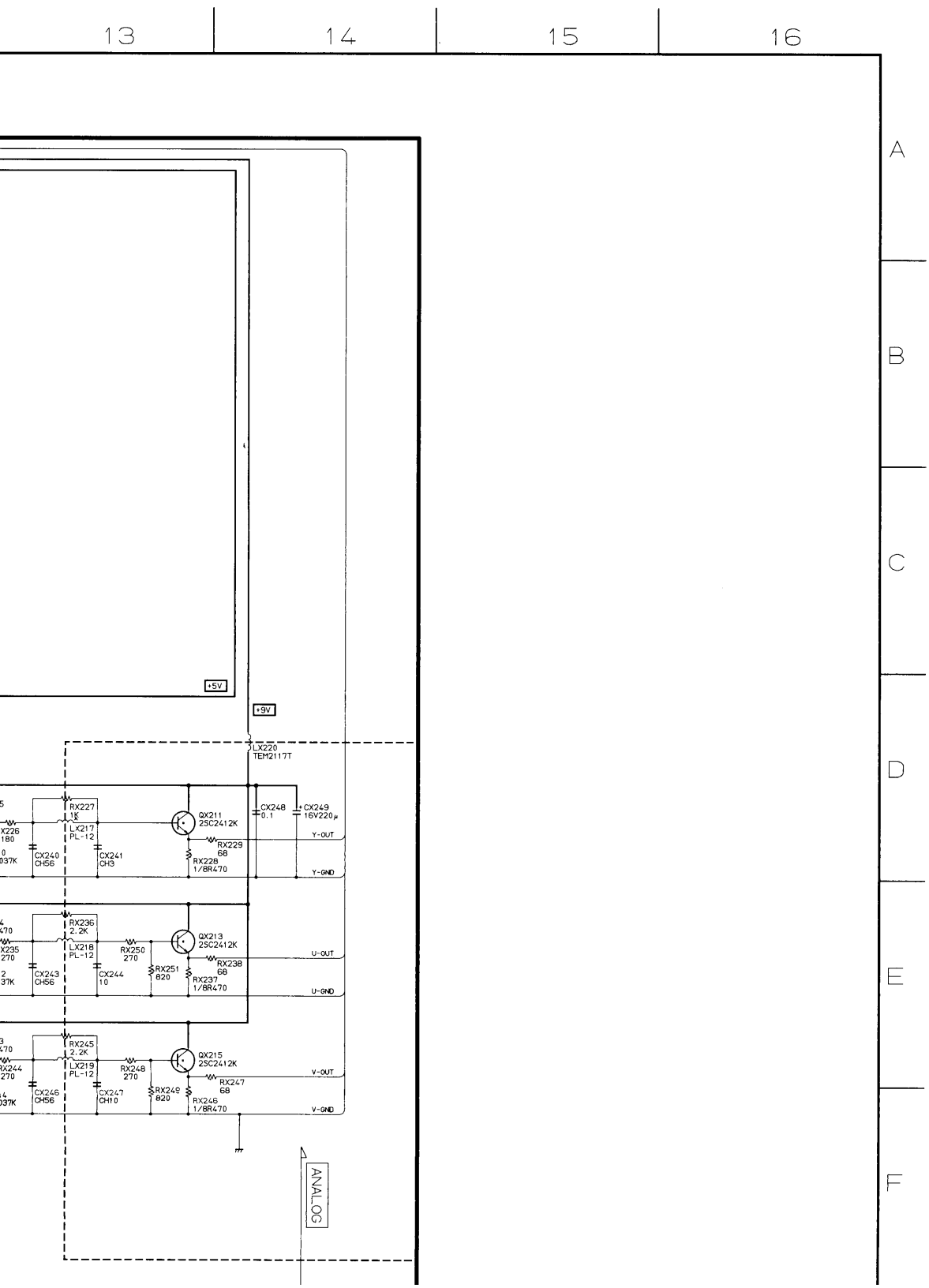
1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in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

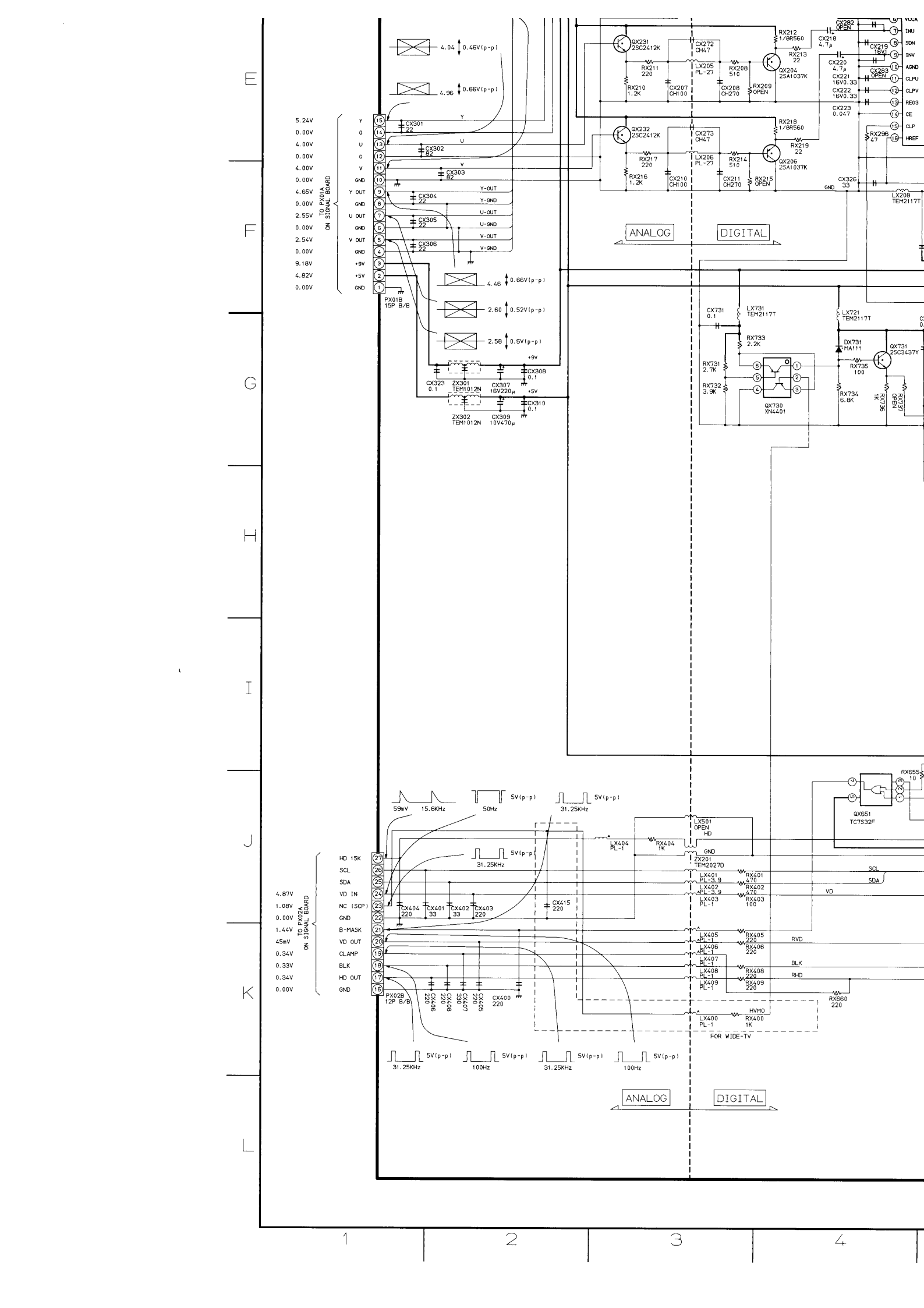
10 | 11 | 12 | 13 | 14

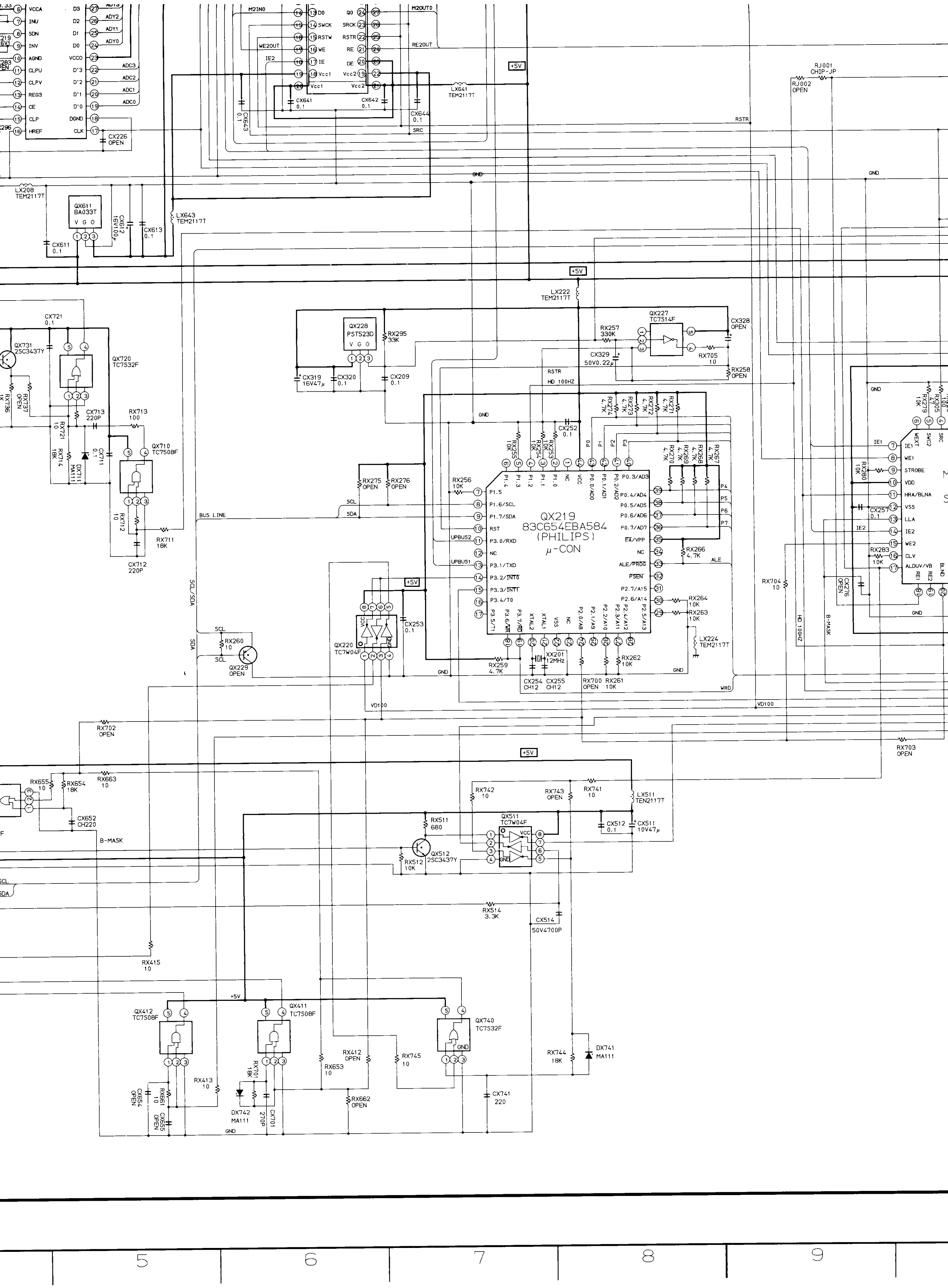


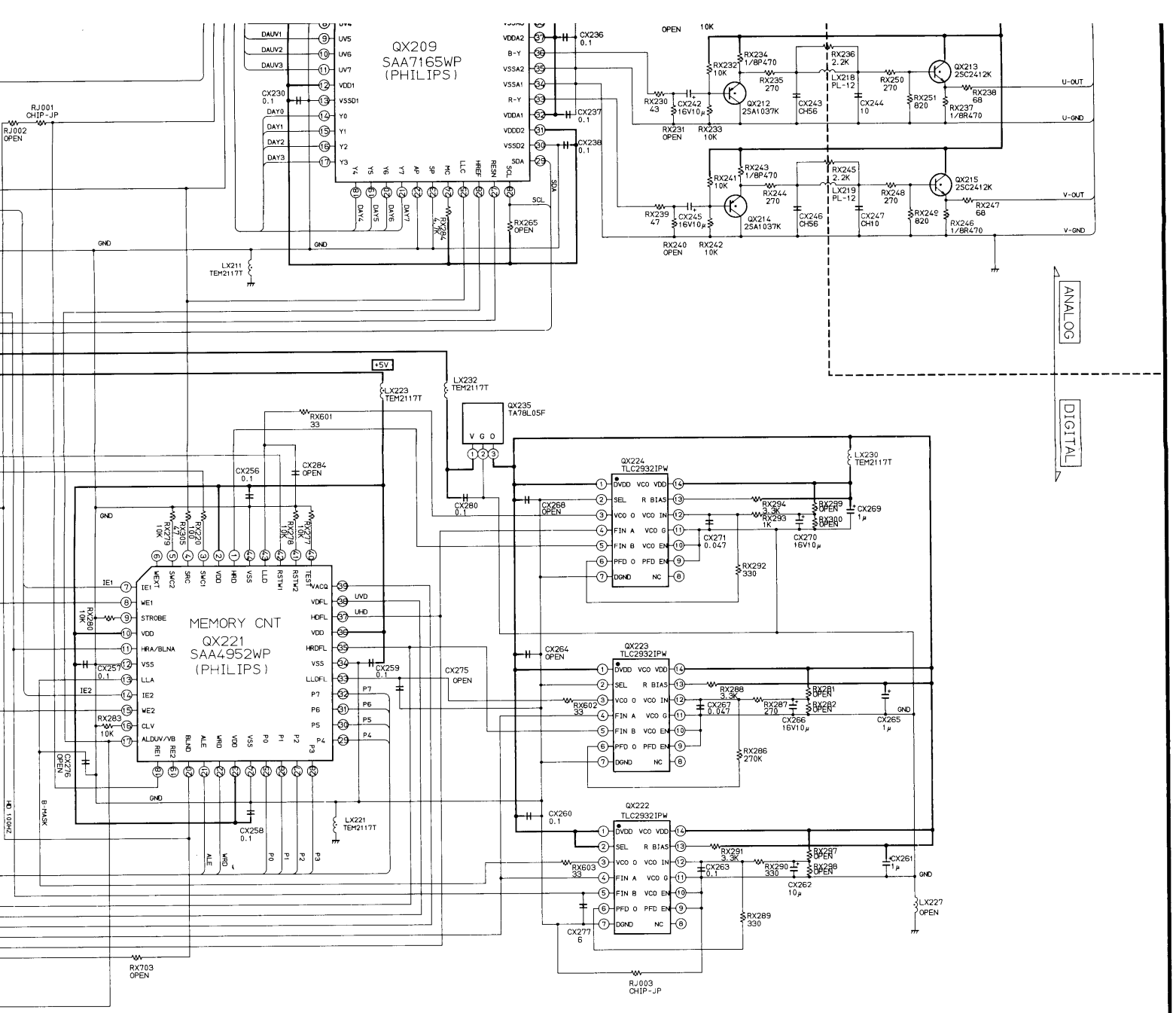
, CAPACITOR and INDUCTOR

ohm, k=1,000, M=1,000,000
ed in schematic, all capacitor values less than 1 are expres-
es more than 1 in pF.
d in schematic, all inductor values more than 1 are expres-
ues less than 1 in H.



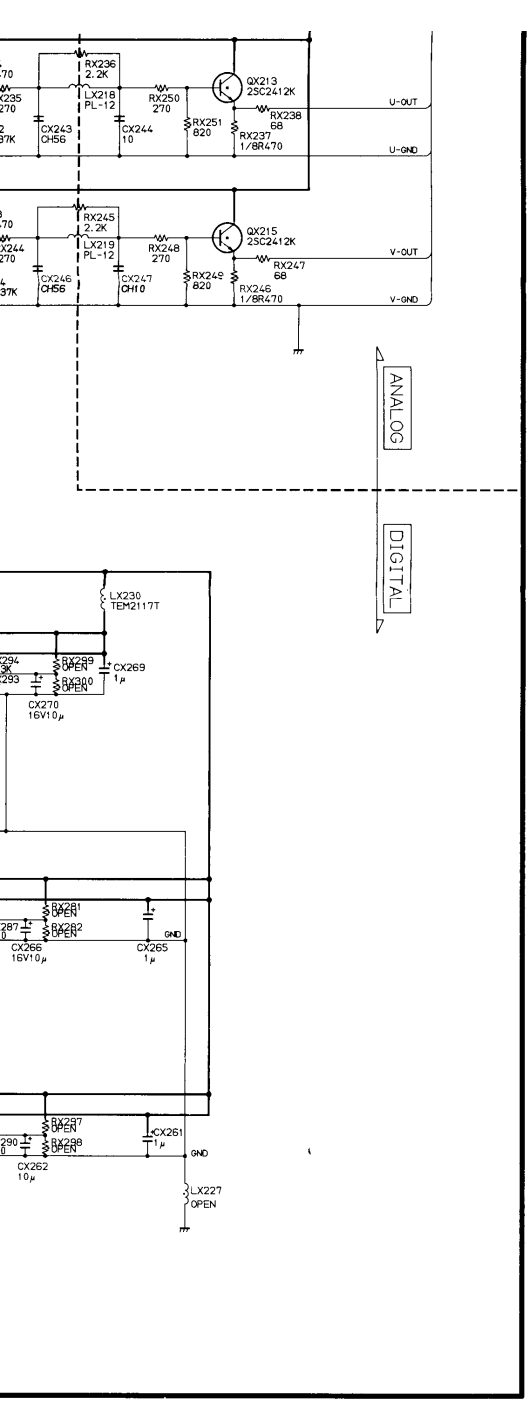

TO PX01A ON SIGNAL BOARD
PX01B 15P B/B
TO PX02A ON SIGNAL BOARD
PX02B 12P B/B
ANALOG
DIGITAL
FOR WIDE-TV
QX231 2SC2412K
QX232 2SC2412K
QX204 2SA1037K
QX206 2SA1037K
QX730 XN4401
QX731 2SC3437Y
QX651 TC7S32F
LX208 TEM2117T
LX731 TEM2117T
LX721 TEM2117T
ZX201 TEM2027D
ZX301 TEM1012N
ZX302 TEM1012N
DX731 MA111
HD 15K
SCL
SDA
VD IN
NC (SCP)
GND
B-MASK
VD OUT
CLAMP
BLK
HD OUT
GND
Y
G
U
G
V
GND
Y OUT
GND
U OUT
GND
V OUT
GND
+9V
+5V
GND
Y-OUT
Y-GND
U-OUT
U-GND
V-OUT
V-GND
+9V
+5V
VCCA
INU
SDN
INV
AGND
CLPU
CLPV
REG3
CE
CLP
HREF
RVD
BLK
RHD
VD
HVMO
4.04 0.46V(p-p)
4.96 0.66V(p-p)
4.46 0.66V(p-p)
2.60 0.52V(p-p)
2.58 0.6V(p-p)
59mV 15.6KHz
50Hz
5V(p-p) 31.25KHz
5V(p-p) 100Hz


QX219
83C654EBA584
(PHILIPS)
μ-CON
QX611
BA033T
QX228
PST523D
QX227
TC7S14F
QX731
2SC3437Y
QX720
TC7S32F
QX710
TC7S08F
QX220
TC7W04F
QX229
OPEN
QX511
TC7W04F
QX512
2SC3437Y
QX412
TC7S08F
QX411
TC7S08F
QX740
TC7S32F
DX741
MA111
DX742
MA111
XX201
12MHz
LX208
TEM2117T
LX643
TEM2117T
LX641
TEM2117T
LX222
TEM2117T
LX224
TEM2117T
LX511
TEN2117T
RJ001
CHIP-JP
RJ002
OPEN
+5V
GND
BUS LINE
SCL
SDA
SCL/SDA
B-MASK
HD 100HZ
RSTR
SRC
VD100
WRD
ALE
UPBUS1
UPBUS2
M2IN0
M2OUT0
WE2OUT
RE2OUT
IE2
5
6
7
8
9



UNIT SN.	
D-SCAN	SN. 23782381
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



OPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

32MW8DG
28MW8DG 7/8
PK2763

E F G H I J K L

13 14 15 16

SCHEMATIC DIAGRAM MODEL : 32MW8DG (8/8)
28MW8DG

036-9822

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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.

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U103 VCD BOARD P38059 (SAME AS 3788DG)

SAME AS SEC97049

32MW8DG
28MW8DG 8/8
PIK2764

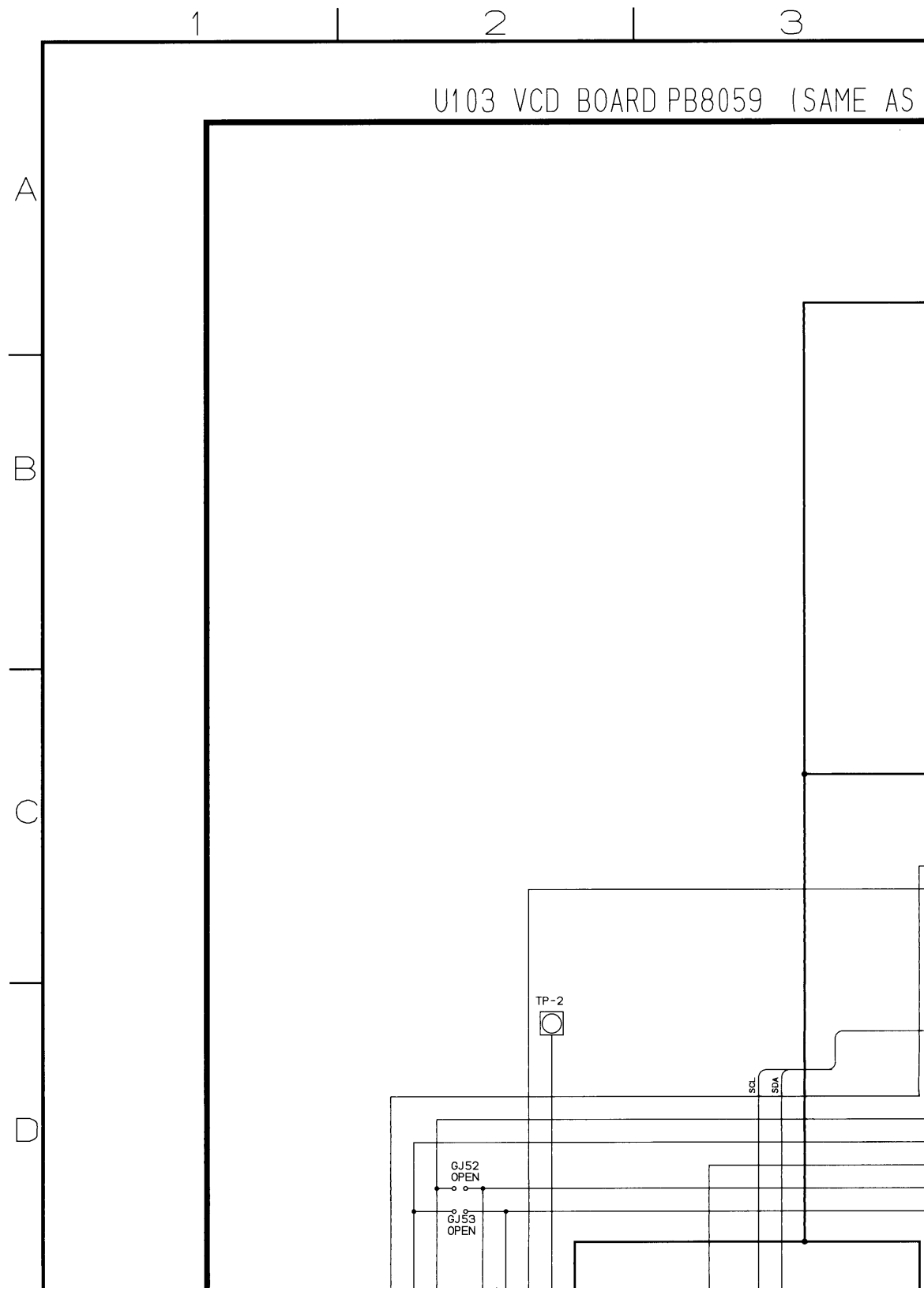
SCHEMATIC DIAGRAM MODEL : 32MW8DG (8/8)
28MW8DG

030-9822

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OBSERVATION OF

1. Voltages read wit volts, colour bar s
2. All waveforms are
3. Waveforms are ta
4. Make sure that BRIGHTNESS cor picture.



N OF VOLTAGES AND WAVEFORMS

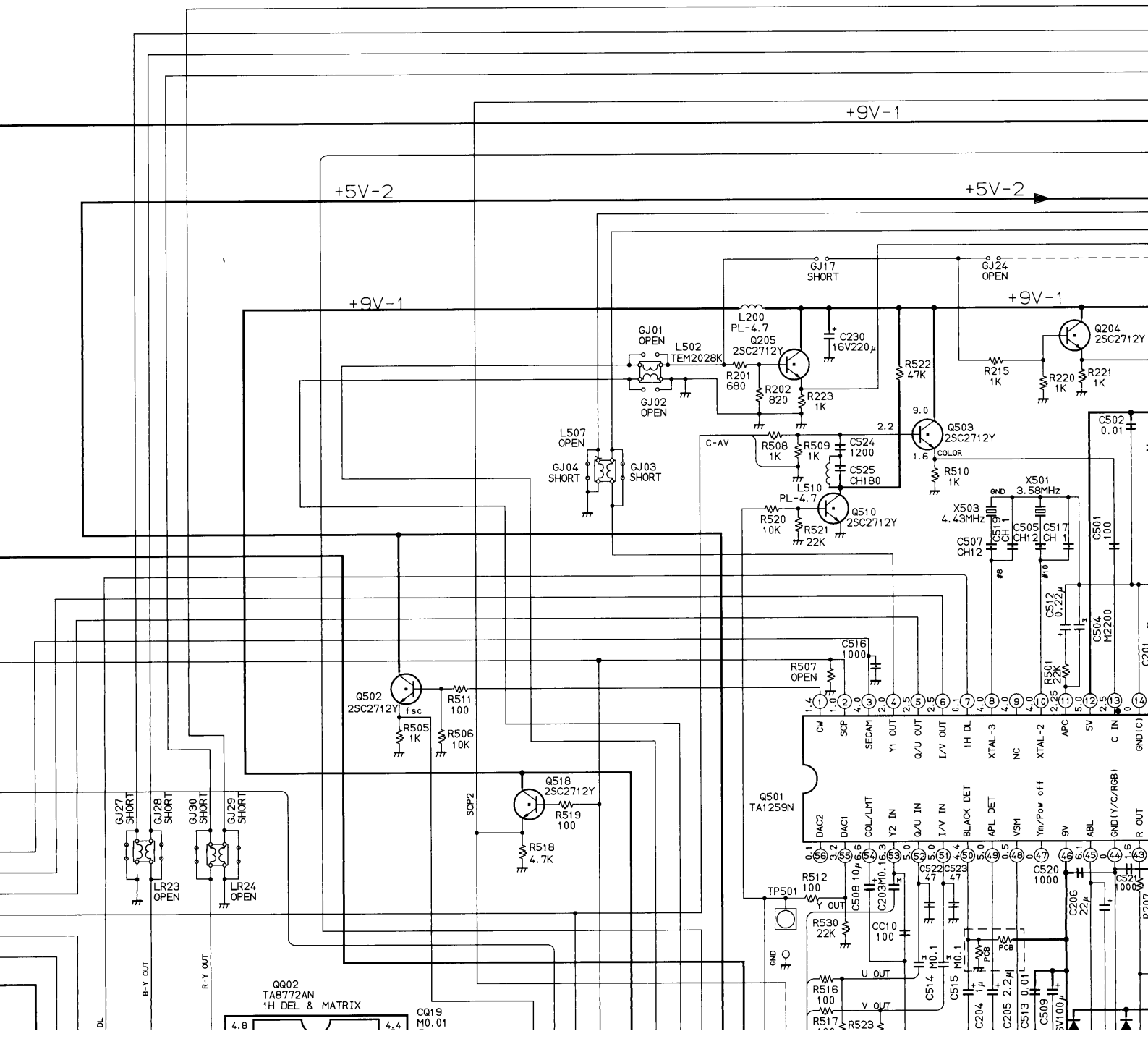
ad with VTVM from point shown to chassis ground, line voltage 220
r bar signal. Voltages reading may vary ±20%.
ns are taken using a wide band oscilloscope and a low capacity probe.
are taken using a standard colour bar signal.
that CONTRAST and COLOUR controls are in mid position and
S control is almost in maximum position. Set other controls for best

NOTES:

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

4 5 6 7

AS 3788DG)



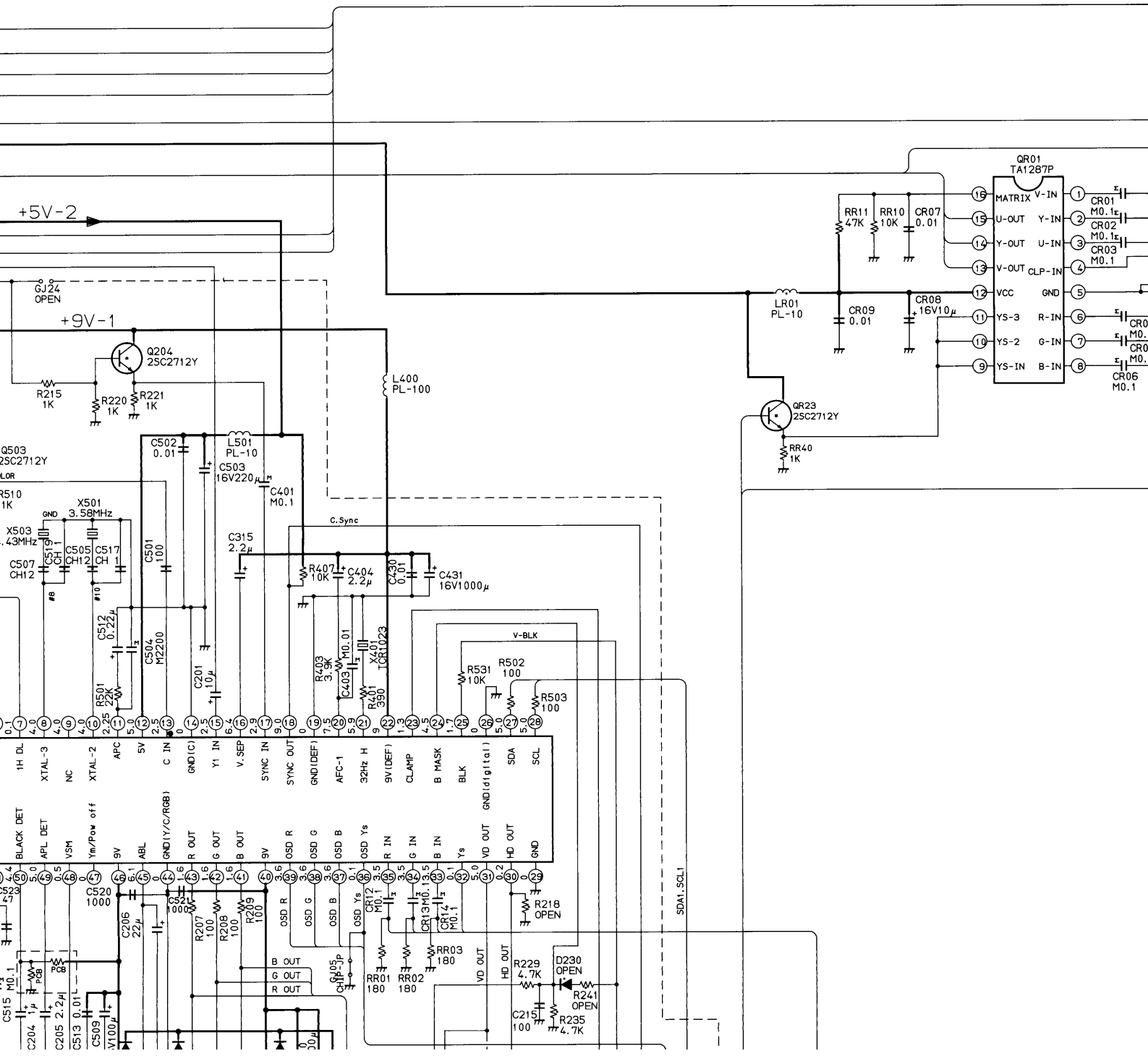
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2. Unless other wise noted in schematic, all capacitor values less than 1 are expre sed in μF and the values more than 1 in pF.
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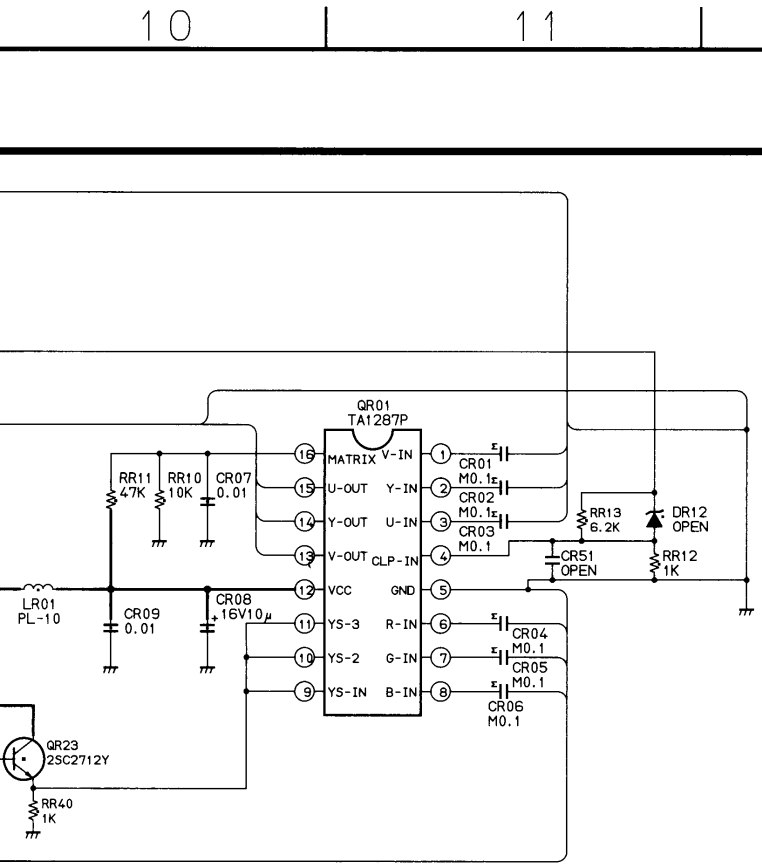
cipal transformer is shown in this schematic dia-
separated from the circuit.
ge without notice.

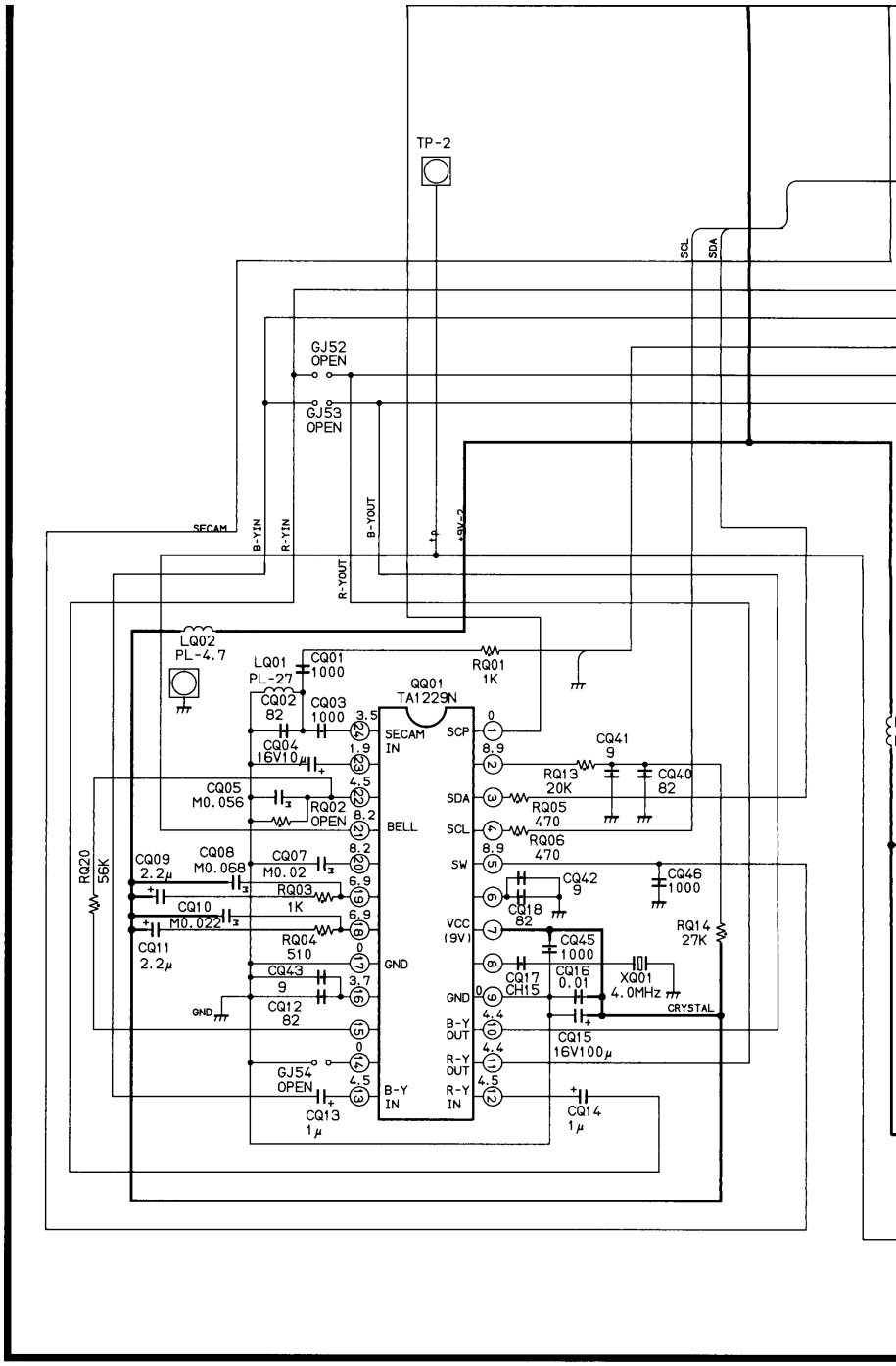
7 8 9 10 1



APACITOR and INDUCTOR

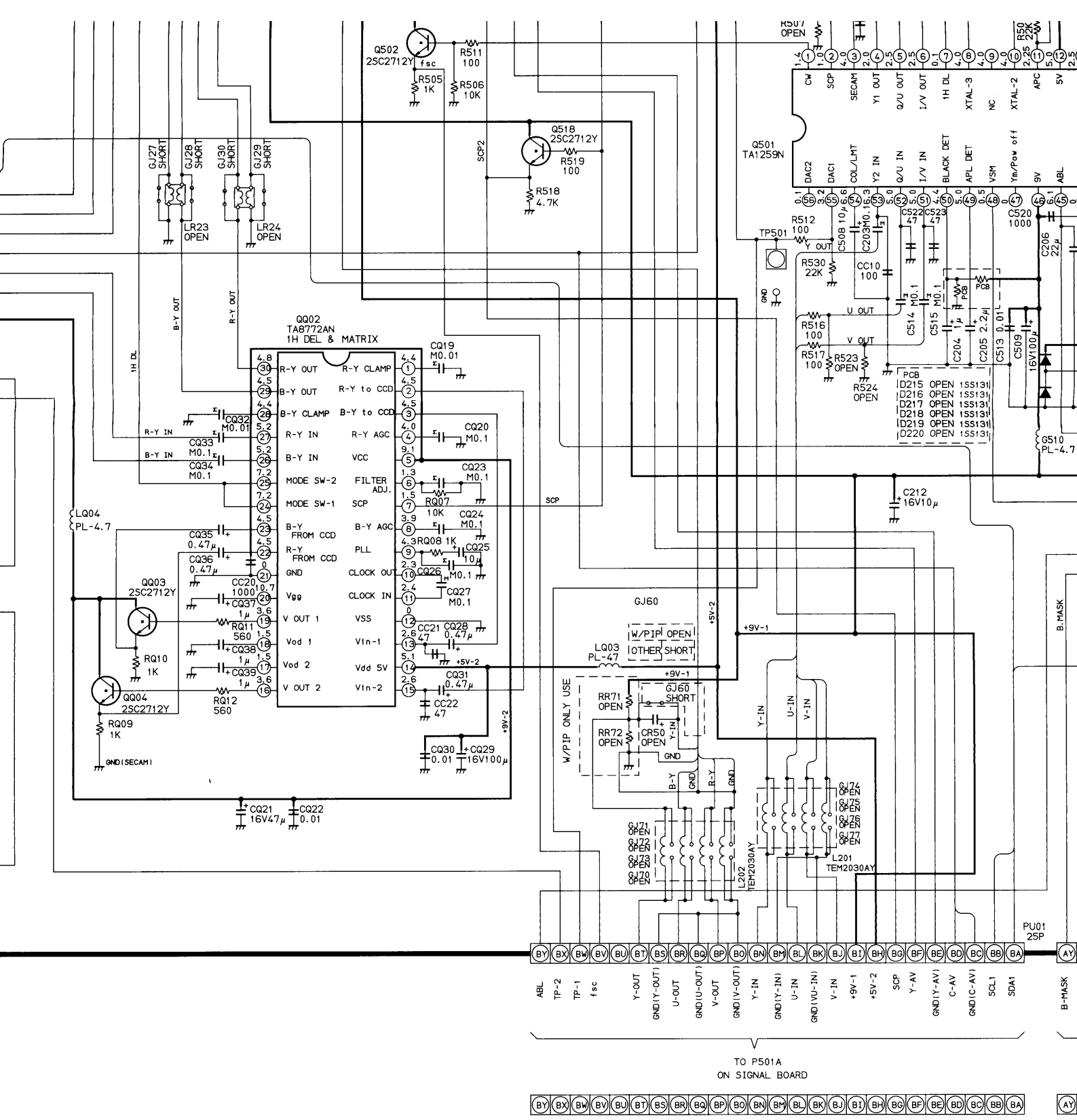
m, k=1,000, M=1,000,000
n schematic, all capacitor values less than 1 are expres-
nore than 1 in pF.
n schematic, all inductor values more than 1 are expres-
less than 1 in H.

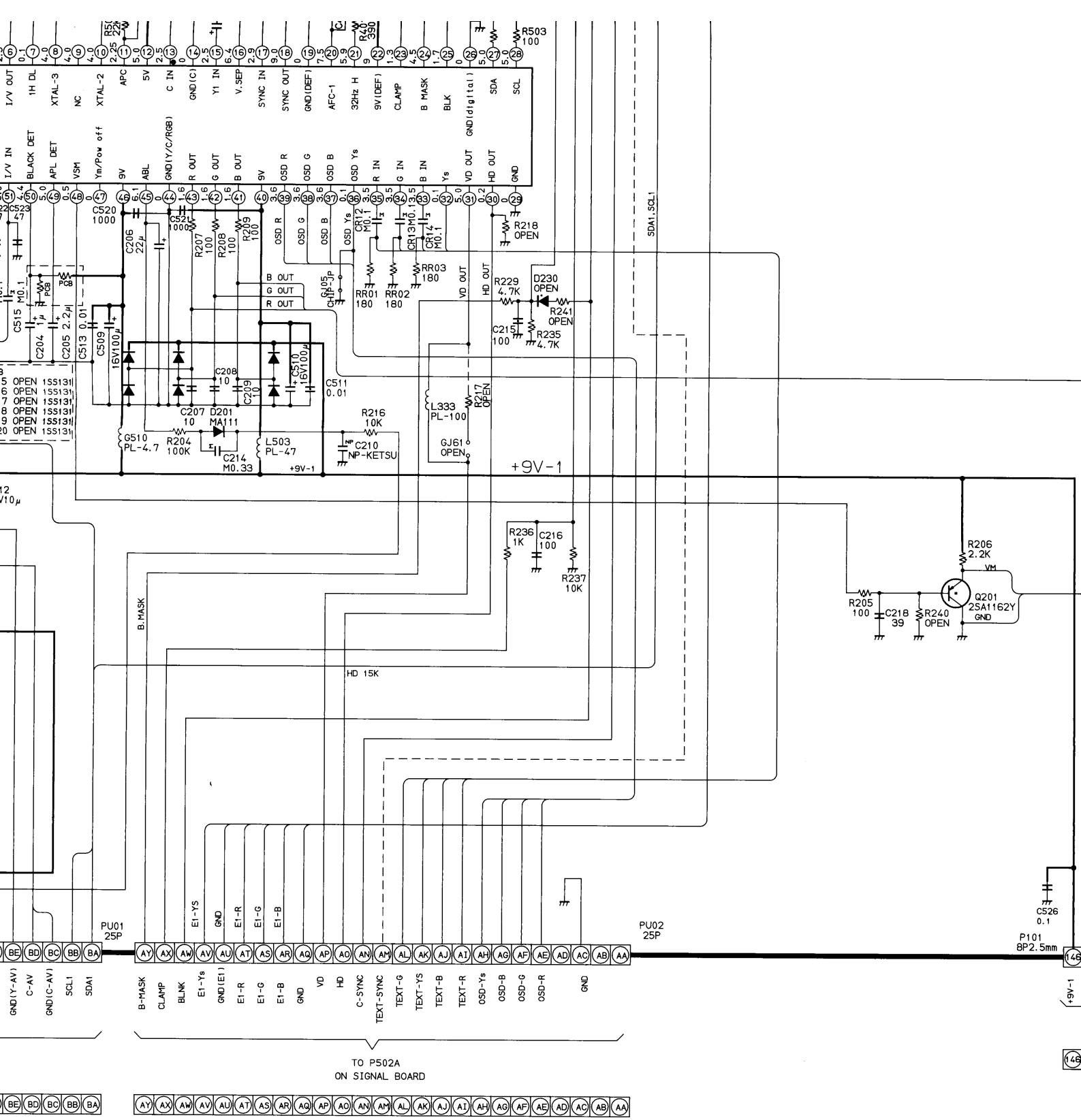



TP-2
SCL
SDA
GJ52
OPEN
GJ53
OPEN
SECAM
B-YIN
R-YIN
B-YOUT
R-YOUT
+9V-2
LQ02
PL-4.7
LQ01
PL-27
CQ01
1000
RQ01
1K
QQ01
TA1229N
CQ02
82
CQ03
1000
CQ04
16V10μ
CQ05
M0.056
RQ02
OPEN
CQ08
M0.068
CQ07
M0.02
RQ03
1K
CQ10
M0.022
RQ04
510
CQ09
2.2μ
CQ11
2.2μ
RQ20
56K
CQ43
9
CQ12
82
GND
GJ54
OPEN
CQ13
1μ
SECAM
IN
BELL
B-Y
IN
SCP
SDA
SCL
SW
VCC
(9V)
GND
B-Y
OUT
R-Y
OUT
R-Y
IN
CQ41
9
RQ13
20K
CQ40
82
RQ05
470
RQ06
470
CQ42
9
CQ46
1000
CQ18
82
RQ14
27K
CQ45
1000
CQ17
CH15
CQ16
0.01
XQ01
4.0MHz
CRYSTAL
CQ15
16V100μ
CQ14
1μ

D E F G H

1 2 3

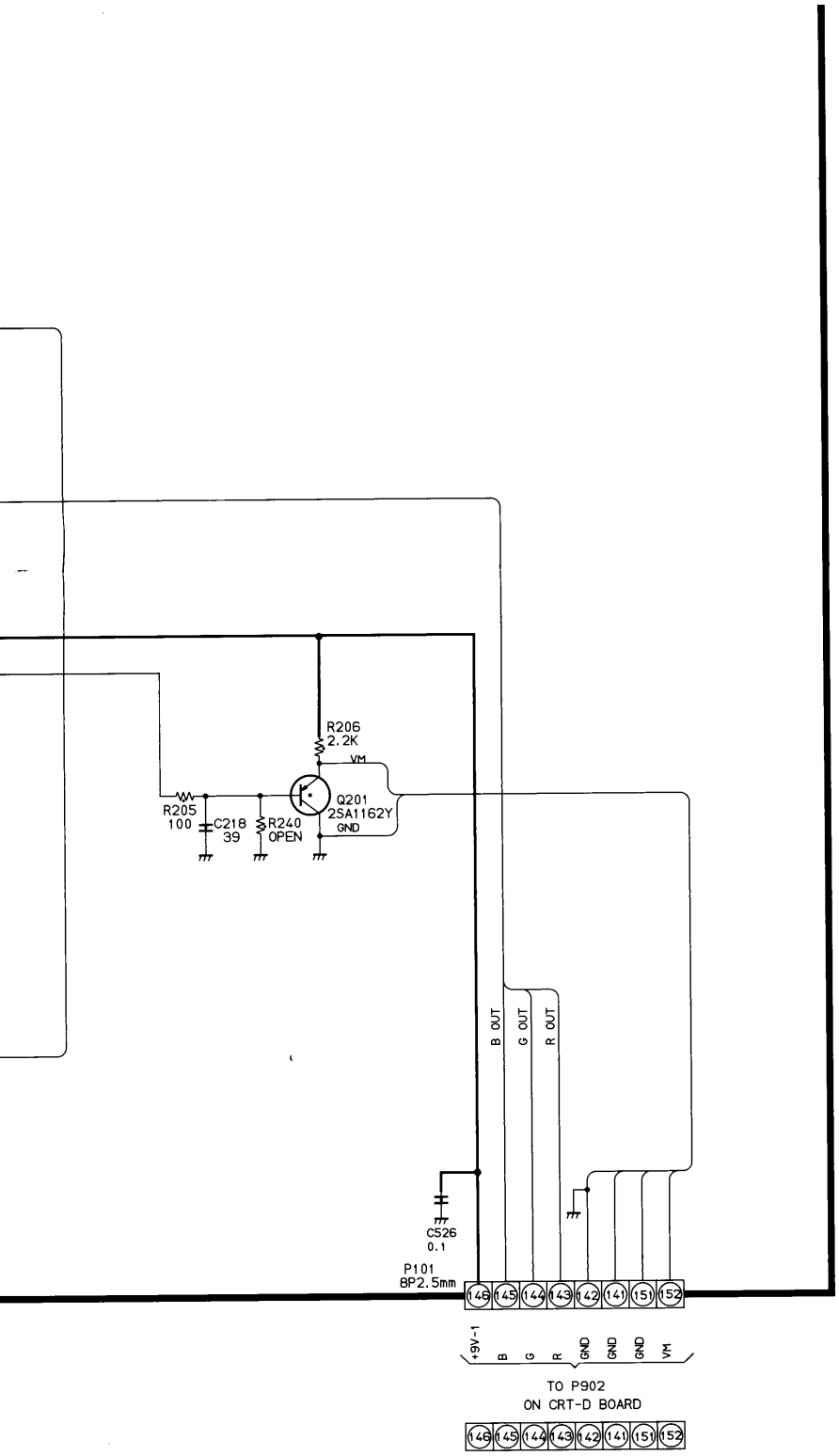

Q502
2SC2712Y
fsc
R511
100
R505
1K
R506
10K
Q518
2SC2712Y
R519
100
R518
4.7K
SCP2
GJ27
SHORT
GJ28
SHORT
GJ30
SHORT
GJ29
SHORT
LR23
OPEN
LR24
OPEN
B-Y OUT
R-Y OUT
1H DL
QQ02
TA8772AN
1H DEL & MATRIX
R-Y OUT
B-Y OUT
B-Y CLAMP
R-Y IN
B-Y IN
MODE SW-2
MODE SW-1
B-Y
FROM CCD
R-Y
FROM CCD
GND
Vgg
V OUT 1
Vod 1
Vod 2
V OUT 2
R-Y CLAMP
R-Y to CCD
B-Y to CCD
R-Y AGC
VCC
FILTER
ADJ.
SCP
B-Y AGC
PLL
CLOCK OUT
CLOCK IN
VSS
Vin-1
Vdd 5V
Vin-2
CQ19
M0.01
CQ20
M0.1
CQ23
M0.1
CQ24
M0.1
CQ25
10μ
CQ26
M0.1
CQ27
M0.1
CQ28
0.47μ
CQ31
0.47μ
CC22
47
CQ29
16V100μ
CQ30
0.01
CQ32
M0.01
CQ33
M0.1
CQ34
M0.1
CQ35
0.47μ
CQ36
0.47μ
CC20
1000
CQ37
1μ
CQ38
1μ
CQ39
1μ
CC21
47
RQ07
10K
RQ08
1K
RQ11
560
RQ12
560
LQ04
PL-4.7
QQ03
2SC2712Y
RQ10
1K
QQ04
2SC2712Y
RQ09
1K
GND(SECAM)
CQ21
16V47μ
CQ22
0.01
SCP
+5V-2
+9V-2
Q501
TA1259N
CW
SCP
SECAM
Y1 OUT
Q/U OUT
I/V OUT
1H DL
XTAL-3
NC
XTAL-2
APC
5V
DAC2
DAC1
COL/LMT
Y2 IN
Q/U IN
I/V IN
BLACK DET
APL DET
VSM
Ym/Pow off
9V
ABL
R507
OPEN
R508
100
R509
22K
TP501
R512
100
Y OUT
C508
10μ
C203
M0.1
C522
47
C523
47
C520
1000
C206
22μ
R530
22K
CC10
100
U OUT
R516
100
V OUT
R517
100
R523
OPEN
R524
OPEN
C514
M0.1
C515
M0.1
C204
1μ
C205
2.2μ
C513
0.01
C509
16V100μ
PCB
D215 OPEN 1SS131
D216 OPEN 1SS131
D217 OPEN 1SS131
D218 OPEN 1SS131
D219 OPEN 1SS131
D220 OPEN 1SS131
G510
PL-4.7
C212
16V10μ
GJ60
W/PIP OPEN
OTHER SHORT
LQ03
PL-47
+9V-1
W/PIP ONLY USE
RR71
OPEN
RR72
OPEN
GJ60
SHORT
CR50
OPEN
Y-IN
U-IN
V-IN
GND
B-Y
R-Y
GJ71
OPEN
GJ72
OPEN
GJ73
OPEN
GJ70
OPEN
GJ74
OPEN
GJ75
OPEN
GJ76
OPEN
GJ77
OPEN
L202
TEM2030AY
L201
TEM2030AY
B.MASK
PU01
25P
ABL
TP-2
TP-1
fsc
Y-OUT
GND(Y-OUT)
U-OUT
GND(U-OUT)
V-OUT
GND(V-OUT)
Y-IN
GND(Y-IN)
U-IN
GND(VU-IN)
V-IN
+9V-1
+5V-2
SCP
Y-AV
GND(Y-AV)
C-AV
GND(C-AV)
SCL1
SDA1
B-MASK
TO P501A
ON SIGNAL BOARD
SAME



SAME AS SEC97049

UNIT SN.	
VCD	SN.23781836
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



32MW8DG
28MW8DG 8/8
PK2764

D E F G H

10 11 12

SPECIFICATIONS (28MW8DG)

Input Power Rating: AC 220 ~ 240 Volts, 50 Hz, 165W

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV	
PAL B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z + 2,
SECAM B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z +2,
PAL D/K	CHINA	1 ~ 12	13 ~ 57	Z-1 ~ Z-35	
PAL I	UK		21 ~ 69		
SECAM D/K	OIRT	1 ~ 12	21 ~ 69	X-1 ~ X-19	
SECAM L	FRANCE/CCIR	FB ~ F6	21 ~ 69	X ~ Z + 2	S1 ~ S41

PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency ..... 38.9 MHz (L VL)
Sound I-F carrier frequency
B/G System ..... 33.4 MHz
D/K System ..... 32.4 MHz

Picture Tube: 28 inches, W66ESF002X44, 600 mm (measured on diagonal of viewable picture area)
110° deflection

Sound Output: 10 W + 10W (at 10% Distortion, Main), 5 W + 5W (at 10% Distortion, Center)
13W (at 10% Distortion, Woofer), 10 W + 10W (at 10% Distortion, Surround)

Speakers: 60 mm x 120 mm oval, 2 pcs (Main)
100 mm, round, 1 pc (Woofer)
60 x 120 mm, oval, 2 pcs (Center)

Aux. Terminals: 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).

Cabinet: Table type

Dimensions:
Height ..... 514 mm
Width ..... 812 mm
Depth ..... 518.5 mm

Mass: 35.8 kg

SPECIFICATIONS (32MW8DG)

Input Power Rating: AC 220 ~ 240 Volts, 50 Hz, 175W

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV	
PAL B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z + 2,
SECAM B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z +2,
PAL D/K	CHINA	1 ~ 12	13 ~ 57	Z-1 ~ Z-35	
PAL I	UK		21 ~ 69		
SECAM D/K	OIRT	1 ~ 12	21 ~ 69	X-1 ~ X-19	
SECAM L	FRANCE/CCIR	FB ~ F6	21 ~ 69	X ~ Z + 2	S1 ~ S41

PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency ..... 38.9 MHz (L VL)
Sound I-F carrier frequency
B/G System ..... 33.4 MHz
D/K System ..... 32.4 MHz

Picture Tube: 32 inches, W76ESF031X44, 760 mm (measured on diagonal of viewable picture area)
110° deflection

Sound Output: 10 W + 10W (at 10% Distortion, Main), 5 W + 5W (at 10% Distortion, Center)
13W (at 10% Distortion, Woofer), 10 W + 10W (at 10% Distortion, Surround)

Speakers: 60 mm x 120 mm oval, 2 pcs (Main)
100 mm, round, 1 pc (Woofer)
80 mm, round, 2 pcs (Center)

Aux. Terminals: 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).

Cabinet: Table type

Dimensions:
Height ..... 581.4 mm
Width ..... 912 mm
Depth ..... 563 mm

Mass: 49.5 kg

* Please refer to owner's manual in detail.