

Service
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Service Manual

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SPECIFICATIONS

General:		Norminal value	Typical value
AC voltage		:230V /00S 50Hz :220V /13S 50/60Hz :120V /17S 60Hz	:230V /00S 50Hz :220V /13S 50/60Hz :120V /17S 60Hz
Power consumption		:460W	:460W
Dimensions(WxHxD)		:435 x124x300 mm	:435 x124x300 mm
Weight		:9,4 kg	:9,4 kg
Tuner: FM section (at 75Ω)			
Tuning range		:87,5MHz to 108.0MHz	:87,5MHz to 108.0MHz
Antenna inputs		:75Ω coaxial	:75Ω coaxial
Sensitivity mono		:2.5 μV (19.2dBf)	:1.3 μV (13.5dBf)
Selectivity		:3% Distortion (75kHz dev.)	:3% Distortion (75kHz dev.)
Frequency response 30Hz - 15kHz		:50dB at ±400kHz bandwidth	:60dB at ±400kHz bandwidth
Suppression IF-AM		:+1.0, -4.0dB	:+0.5, -2.0dB
pilot tone		:65dB - 45dB	:70dB - 55dB
image frequency		:40dB	:50dB
Channel separation		:40dB	:50dB
Distortion T.H.D. mono		:30dB 1kHz	:45dB 1kHz
stereo		:0.5%	:0.2%
Signal/noise ratio mono		:1.0%	:0.4%
stereo		:71dB	:76dB
Auto-stop theshold(Muting)		:63dB	:68dB
Output		:23.3 - 32.0dBf(4 -11μV)	:27.2dBf(6.3μV)
		:650 - 1300mV/2.0kΩ	

Tuner: AM section

Wave ranges		:520kHz to 1710kHz	:520kHz to 1710kHz
Sensitivity (Loop antenna)		:1000μV/m 10% Distortion	:600μV/m 10% Distortion
Selectivity (Loop antenna)		:20dB at ±10kHz bandwidth	:30dB at ±10kHz bandwidth
Suppression IF (Loop antenna)		:50dB	:60dB
image frequency (Loop antenna)		:35dB	:40dB
Output (Loop antenna)		130 -260mV	:190mV

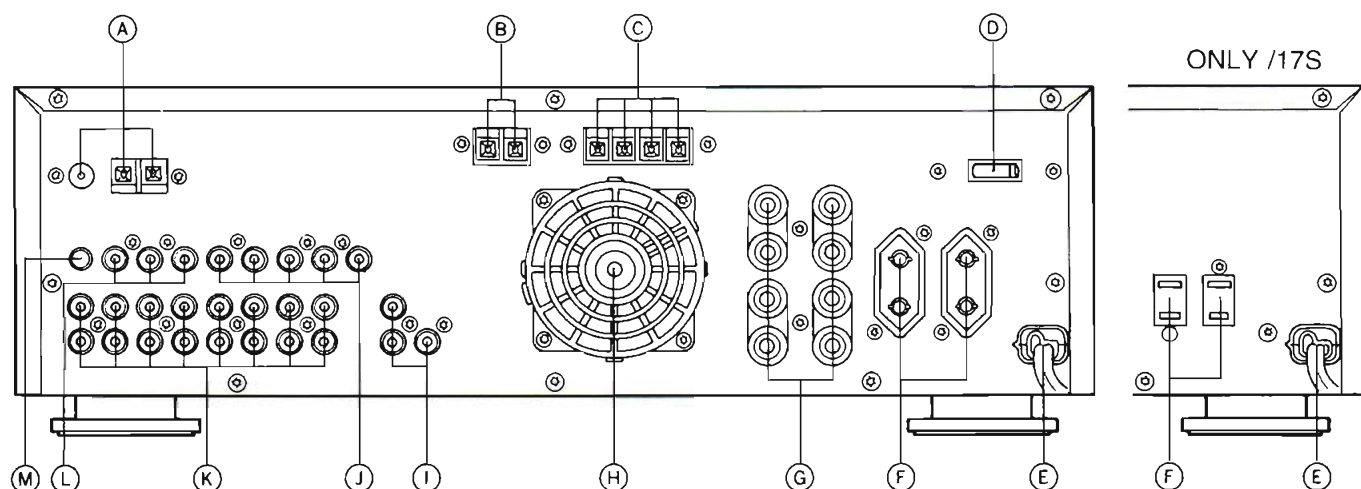
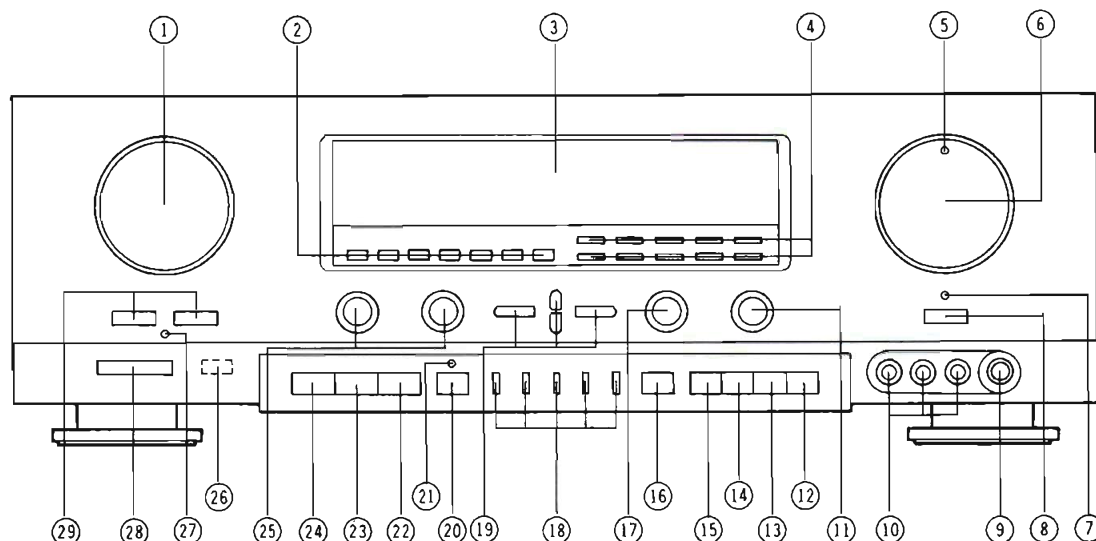
Note
- Test methode : IHF

SPECIFICATIONS (Continued)

Audio	Norminal Value	Typical Value
Output power(Front/Rear/Center)	:100W(8Ω)/20W(4+4Ω)/40W(40W(8Ω)	:105W(8Ω)/22W(4+4Ω)/40W(42W(8Ω)
Distortion		
T.H.D. (Front)	:≤0.7% at 20Hz - 20kHz /00S/13S :≤0.09% at 20Hz - 20kHz /17S	:≤0.7% at 20Hz - 20kHz /00S/13S :≤0.05% at 20Hz - 20kHz /17S
Intermodulation (Front)	:≤0.09% at 60/7000Hz 4:1	:≤0.03% at 60/7000Hz 4:1
Frequency characteristic		
Phono input l tone control	:from 20Hz - 20kHz ±2dB(RIAA)	:from 20Hz - 20kHz ±0.5dB(RIAA)
Linear input l neutral	:from 20Hz - 20kHz ±2dB	:from 10Hz - 30kHz ±2dB
Bass control	:at 100Hz +10dB to -10dB ±2dB	:at 100Hz +10dB to -10dB
Treble control	:at 10kHz +10dB to -10dB ±2dB	:at 10kHz +10dB to -10dB
Acoustic bass boost (80Hz/150Hz/250Hz)	:10dB/10dB/10dB ±2dB	:10dB/10dB/10dB
Signal/noise ratio weighted(A-curve)		
Phono input	:for 1W output ≥70dB	:for 1W output ≥75dB
Linear inputs	:for 1W output ≥78dB	:for 1W output ≥82dB
Channel separation	:at 1000Hz ≥40dB :at 100Hz -10kHz ≥30dB	:at 1000Hz ≥45dB :at 100Hz -10kHz ≥35dB
Input sensitivity/Input impedance		
Audio		
Phono	:3.6 - 5.6mV/47kΩ	:4.5mV/47kΩ
CD/LD/TV	:220 - 360mV/20kΩ	:280mV/20kΩ
Tape/VCR	:220 - 360mV/20kΩ	:280mV/20kΩ
Video-AUX	:220 - 360mV/20kΩ	:280mV/20kΩ
Output level/Output impedance		
Tape(Audio)	:≥250mV/300 - 500Ω(Phone 5mV 1kHz input)	:≥300mV/400Ω(Phone 5mV 1kHz input)
Output level Center		
Pre-output	:160mV ±20mV	:160mV ±20mV
Video		
Frequency characteristic:	:from 10Hz - 6MHz -5dB	:from 10Hz - 10MHz -5dB
Signal/noise ratio weighted(A-curve)		
Video inputs	:70dB	:75dB
Crosstalk 3.58MHz	:35dB	:38dB
Input sensitivity		
Video inputs	:1.8 - 2.2Vpp	:2.0Vpp
Output level/Output impedance		
Video outputs	:0.9 - 1.1Vpp/60-85Ω	:1.0Vpp/75Ω

Note
- Test methode : IHF

CONNECTIONS AND CONTROLS



1	Source selector	S437	25	Tone control	R519, R520
2	Surround mode switches	S401...S407	26	I.R receiver	Q406
3	FTD display	V401	27	Standby indicator	D404
4	Tuner preset switches	S408...S417	28	Power switch (00S) (/17S)	S321
5	Volume indicator only	D651	29	Speaker switch	S320
6	Volume control	R662			S251
7	Mute indicator	D405			
8	Mute switch	S418			
9	Headphone socket	J581			
10	Video AUX input	J582...J584	A	Antenna terminal	J101
11	Balance control	R532	B	Center speaker terminal	J309
12	Memory switch	S436	C	Surround speaker terminal	J310
13	FM mode switch	S435	D	Voltage selector /13S only	S222
14	Display switch	S434	E	Mains cord	W001
15	FM/AM switch	S433	F	Mains outlet /00S /13S /17S	J326, J327
16	Frequency direct switch	S432			J021, J022
17	Source direct switch	S710			J320
18	Cursor mode switches	S423...S427	G	Front speaker terminal	J300
19	Cursor switches	S426...S431	H	Fan motor	910G
20	Auto selector switch	S422	I	System control jacks	J553, J554
21	Auto selector indicator	D406	J	Video input/output	J570, J571
22	Sleep switch	S421	K	Analog audio input/output	J551, J552
23	Dubbing switch	S420	L	Digital audio input/output	J592
24	Video switch	S419	M	Ground terminal	J053

Service Test Program

To enter the service test program, press the POWER switch while pressing and holding the MUTE and MEMORY switches simultaneously. The display will show the characters ".SERVICE.." for 2 seconds, then show "TUNER-OK" or "TUNER-NG" for 2 seconds.

TUNER-OK: The data communication between the PLL IC (Q150) and microprocessor (Q401) is normal.

TUNER-NG: The data communication between the PLL IC (Q150) and microprocessor (Q401) is abnormal. Check the data line between line.

In case of "TUNER-NG", the characters blink at a cycle of 1Hz. The blinking can be stopped with the FM/AM switch. Other switches are invalid during blinking.

After the "TUNER-OK" or "TUNER-NG" display, normal operation starts. However, the source indicator on the display keeps on blinking at 1Hz while the unit is in the service test program.

- Tracking point memory mode
When the MUTE and MEMORY switches are pressed simultaneously while the unit is in the service test program, the tracking point frequencies as shown below are written in the memory.

- Tracking point frequencies

Pre Set Nbr.	1 - 3	4	5	6	7	8	9	10 - 20	21 - 31
/00S/01S /13S	87.5	90.0	98.0	106.0	603	999	1404	87.5	522
BK01					600	1000	1400	87.5	530
	FM (MHz)				AM (KHz)			FM (MHz)	AM (KHz)

In the service test program, the RAM can be cleared by pressing the POWER switch to OFF while also pressing and holding the 0/+ and MEMORY switches simultaneously. To exit the service test program, press the Power switch to turn the unit OFF.

ADJUSTMENTS

Audio Section

Idling Current

FUNCTION... SWITCH						
Power switch OFF (S321: /00S/01S) (S320: /13S, BK01)				R263, R264 Preset in full C.C.W. position		
Power switch ON (S321: /00S/01S) (S320: /13S, BK01)			Min.	Lch R263 Rch R264		Lch TP1 (+), TP3 (-) (Both side of R271) DC 7.2 mV (20 mA) Rch TP2 (+), TP4 (-) (Both side of R272) DC 7.2 mV (20 mA)

C.C.W.: Counterclockwise

Notes:

- After the power has been turned on, wait 5 minutes, and then adjust R263 & R264 to obtain the reading of 7.2mV.
- If the temperature of the heat-sink is higher than the room temperature, switch the power OFF, and leave the unit until the heat-sink falls to the room temperature before proceeding to the Idling Current Adjustment.

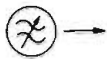
Tuner Section

- Inner adjustment of the FM front end pack (A101) of this unit is difficult. (IF, RF, OSC)
- Inductance of the AM OSC coil (L102) is preset. Therefore, please do not turn the core of this coil.
- Refer to "Tracking point memory mode" in the Service test program.

Notes:

- Clear the output waveform on J551 by turning R114, then adjust R114 slightly so that the waveform just reappears.
- Adjust R103 so that the "TUNED" indicator of the FDT (Flouresent Display Tube) lights up.

FM-Distortion

FUNCTION... WAVE RANGE SWITCH			DISPLAY	DETUNE	ADJUST		
FM (S433)	98 MHz Mod. 1 kHz Δf 75 kHz (Mono) Output 500 μ V (65 dBf)				L105		J551 (Tape out) Distortion Min.
	98 MHz Mod. 1 kHz Δf L+R 67.5 kHz Pilot 6.75 kHz Output 500 μ V (65 dBf)	J101			A101-IFT (Front end IFT)		

Stereo Separation

FM (S433)	98 MHz Mod. 1 kHz Δf L+R 67.5 kHz Pilot 6.75 kHz Output 500 μ V (65 dBf)	J101			R119		J551 (Tape out) Separation Max.
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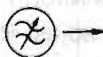
Muting Level

FM (S433) FM mode switch (S435) (Mono indicator OFF)	98 MHz Mod. 1 kHz Δf 75 kHz Output 6.3 μ V (27.2 dBf)	J101			R114		J551 (Tape out) 1
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AM-IF

AM (S433)	1000 kHz (BK01) Mod. 400 Hz 30% Low Output (300 μ V/m)	Loop Ant.			L104		J551 (Tape out) Output Max.
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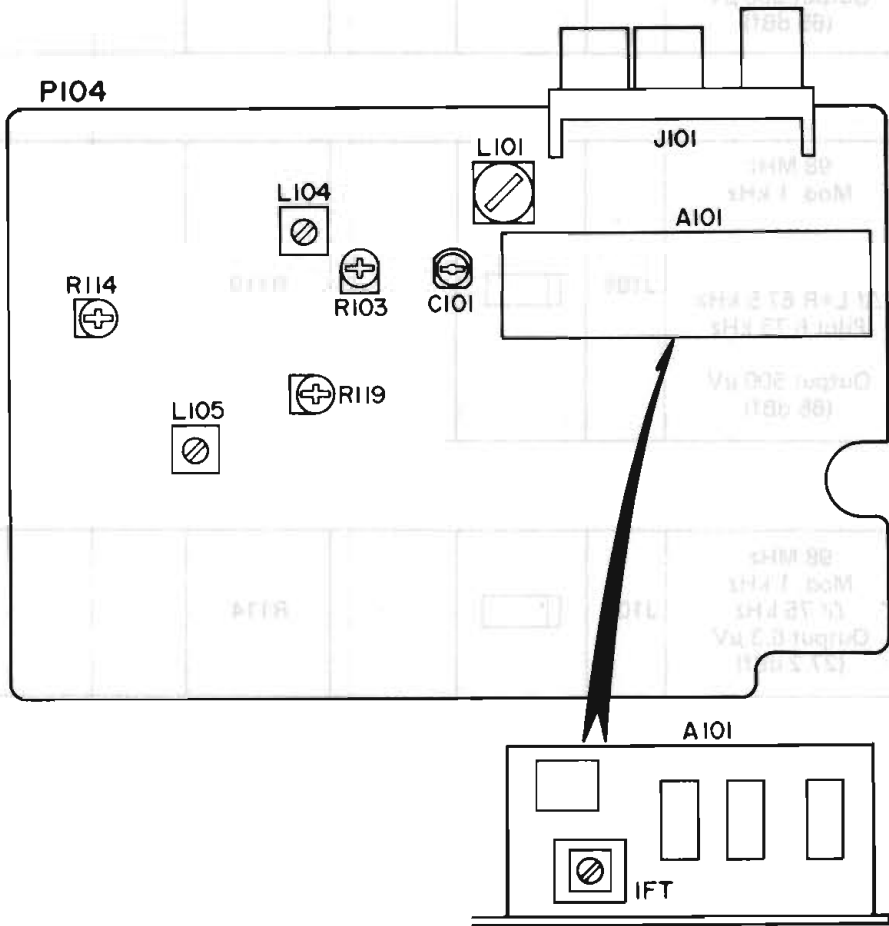
AM-RF

FUNCTION... WAVE RANGE SWITCH	 SIGNAL	 TO	DISPLAY TUNE IN	DETUNE	 ADJUST	 OSCILLOSCOPE	 INDICATOR
AM (S433)	1400 kHz	Loop Ant.			L101		J551 (Tape out) Output Max.
	600 kHz				C101		

AM Auto Stop

AM (S433)	1000 kHz Mod. 400 Hz 30% Output 1000 μ V/m	Loop Ant.			R103		J551 (Tape out) 2
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Tuner Adjustment Positions



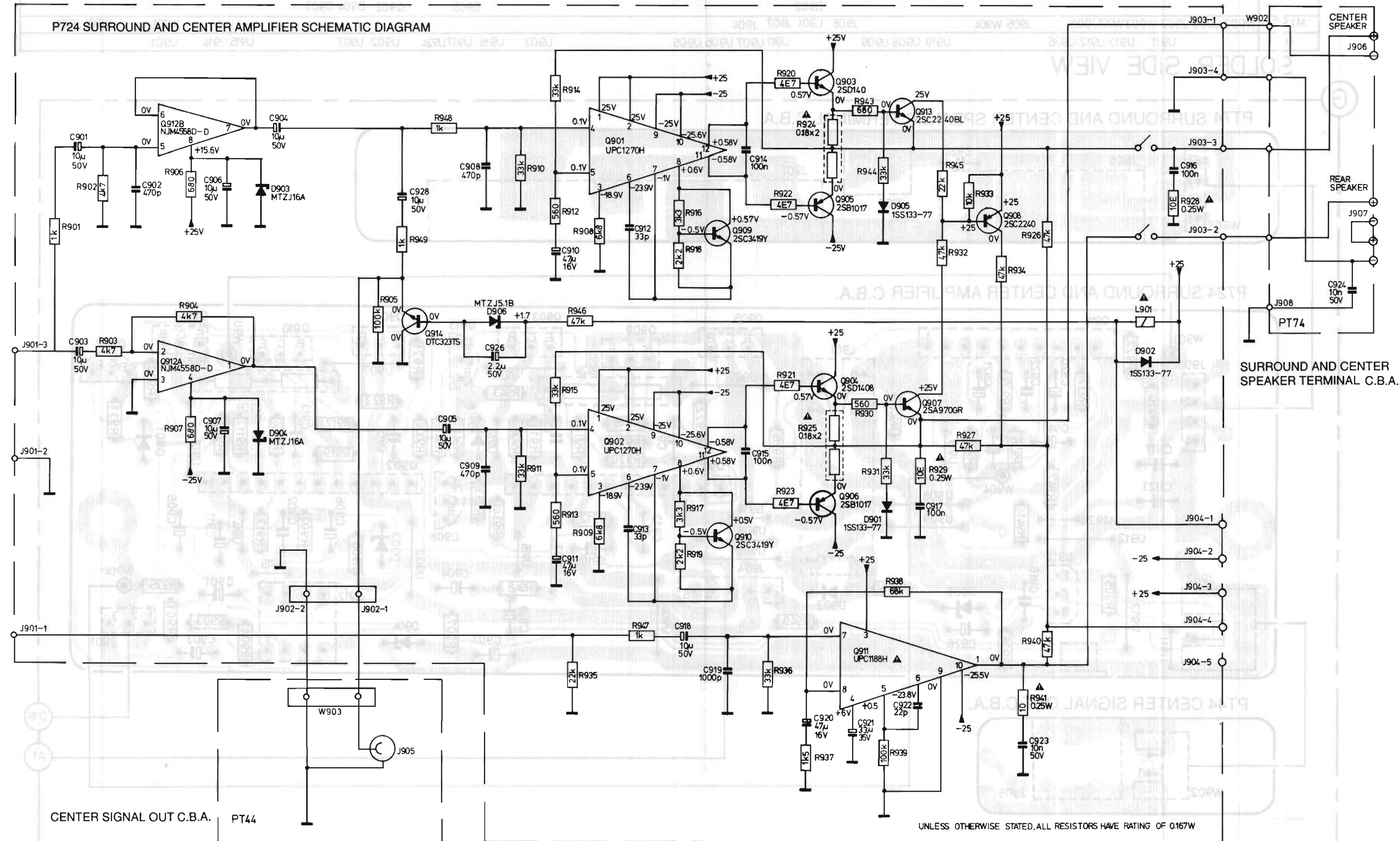
μ -Processor Data
Q401: TMP47C1670AN H054

Pin Nbr.	Pin Name	I/O	Act.	Function	Pin Nbr.	Pin Name	I/O	Act.	Function
1	VKK	—	—	—35V	33	N.C.	—	—	Not Used
2	S0	O	H	FTD Segment Drive	34	AUTO SELECT IND	O	L	Auto Select Mode Indicator Out
3	S1	O	H		35	MUTE	O	L	Audio Mute Output
4	S2	O	H		36	STANDBY IND	O	L	Standby Indicator Output
5	S3	O	H		37	DATA IN	I	H	Serial Data Input
6	S4	O	H		38	W.T. OUT	O	L	Watchdog Reset Signal Output
7	S5	O	H		39	DIGITAL IND	I	L	Detecting Digital Signal Out/In
8	S6	O	H		40	3/4 CH	O	H	3CH/4CH Switching Signal Output
9	S7	O	H		41	RC-5 IN	I	L	RC-5 Bus Signal Input
10	S8	O	H		42	SD IN	I	L	Band Detecting Signal Input
11	S9	O	H		43	EASY LINK IN	I	L	Easy Link Bus Signal Input
12	S10	O	H	Key Input	44	EASY LINK OUT	O	L	Easy Link Bus Signal Output
13	S11	O	H		45	SPK RELAY	O	L	Speaker Relay Control
14	K0	I	H		46	MUTE	O	L	Front Channel Mute Signal Out
15	K1	I	H		47	V-AUX	O	L	FTD Segment Drive
16	K2	I	H		48	G11	O	H	FTD Grid Drive
17	K3	I	H		49	G10	O	H	
18	TEST	I	—	GND	50	G9	O	H	
19	OSC	I	—	Clock Input	51	G8	O	H	
20	OSC	O	—	Clock Output	52	G7	O	H	
21	RESET	I	L	Reset	53	G6	O	H	
22	HOLD	I	H	Elect. Failure Sensing Signal Input	54	G5	O	H	
23	CE4	O	H	Strobe Signal Output	55	G4	O	H	
24	PULSE UP	I	L	Function Selector Pulse Input	56	G3	O	H	
25	PULSE DOWN	I	L		57	G2	O	H	
26	CE3	O	H	Latch Signal Output	58	G1	O	H	
27	CE2	O	L	"REQ" Signal Output	59	G0	O	H	FTD Segment Drive
28	CE1	O	H	Chip Enable Signal Output	60	S15	O	H	
29	CLK OUT	O	H	Serial Data Control Clock Output	61	S14	O	H	
30	DATA OUT1	O	H	Data Output	62	S13	O	H	
31	DATA OUT2	O	H	Data Signal Output	63	S12	O	H	
32	VSS	—	—	GND	64	VDD	—	—	+5V

 Carbon film 0.125 W or 0.2 W 70°C 5%	 Ceramic plate Tuning ≤ 120 pF NP.0 2% Others -20/+80%	$\begin{matrix} *a = 2.5\text{ V} \\ b = 3.15\text{ V} \\ \text{or } 4\text{ V} \\ c = 6.3\text{ V} \\ d = 10\text{ V} \\ e = 16\text{ V} \\ f = 25\text{ V} \\ g = 40\text{ V} \\ h = 63\text{ V} \\ j = 100\text{ V} \\ l = 125\text{ V} \\ m = 150\text{ V} \\ n = 160\text{ V} \\ q = 200\text{ V} \\ r = 250\text{ V} \\ s = 300\text{ V} \\ t = 350\text{ V} \\ u = 400\text{ V} \\ v = 500\text{ V} \\ w = 630\text{ V} \\ x = 1000\text{ V} \\ A = 1.6\text{ V} \\ B = 6\text{ V} \\ C = 12\text{ V} \\ D = 15\text{ V} \\ E = 20\text{ V} \\ F = 35\text{ V} \\ G = 50\text{ V} \\ H = 75\text{ V} \\ I = 80\text{ V} \end{matrix}$
 Carbon film 0.25 W or 0.33 W 70°C 5%	 Polyester flat foil 10%	
 Metal film 0.25 W or 0.33 W 70°C 5%	 Metalized polyester flat film 10%	
 Carbon film 0.5 W 70°C 5%	 Polyester flat foil small size (Mylar) 10%	
 Carbon film 0.67 W 70°C 5%	 Polysterene film/foil 1%	
 Carbon film 1 W or 1.15 W 70°C 5%	 Tubular ceramic	
	 Miniature single	
	 Subminiature tantalum $\pm 20\%$	
 Chip component		

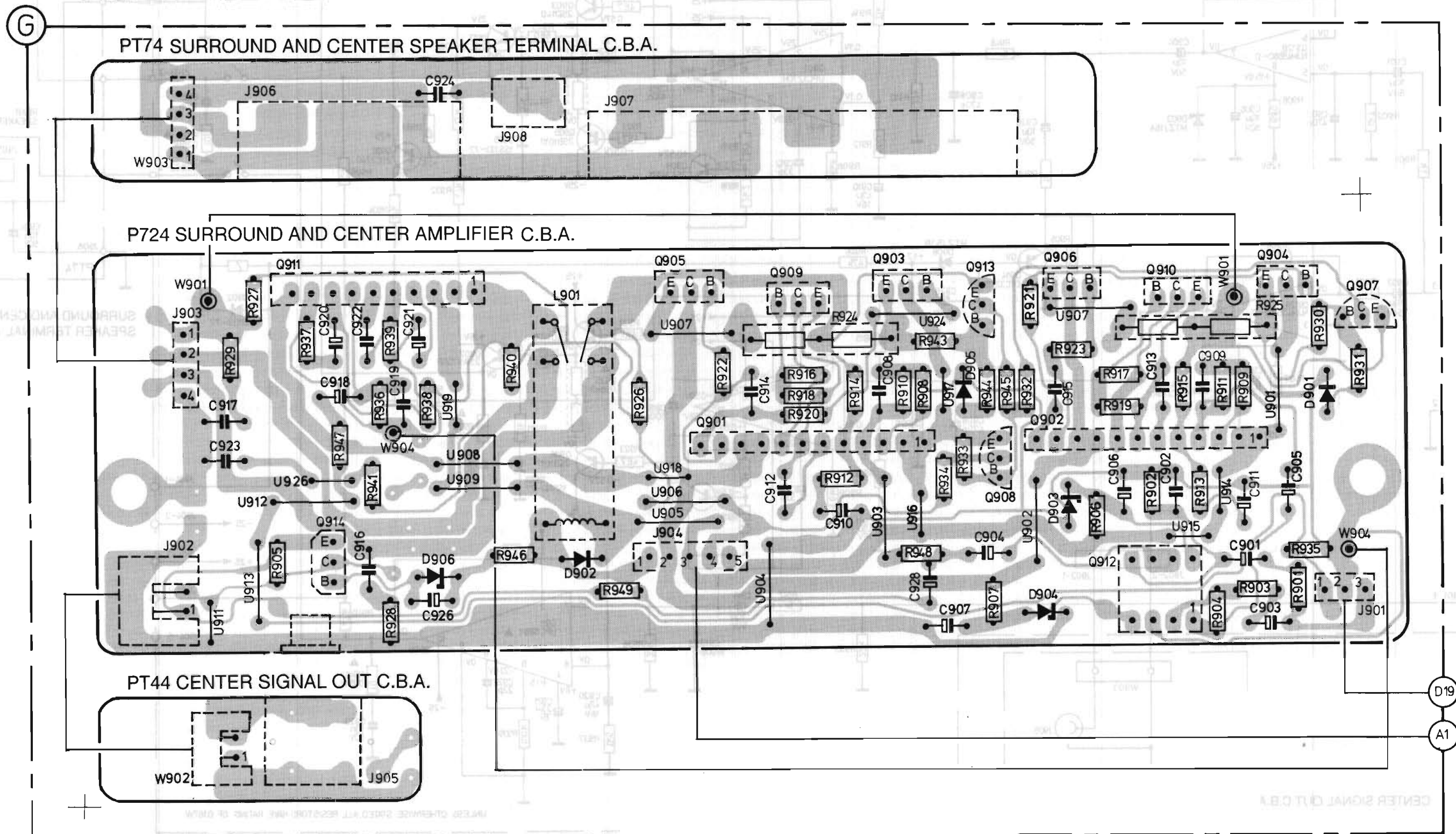
R	R901	R902	R906		R905	R948	R910	R914	R912	R946	R908	R916	R918	R920	R922	R924	R943	R944	R938	R945	R932	R933	R934	R926	R928			
	R903		R904		R907	R949		R911		R915	R913	R935	R909	R947	R917	R919	R923	R921	R936	R925	R937	R930	R931	R939	R929	R927	R941	R940
C	C901		C906	C904		C928	C905	C908	C926	C910		C912		C914						C917						C916		C924
	C903	C902	C907				C909			C911		C913	C918	C919	C915		C920	C921	C922					C923				
Q, D			Q912B	D903		Q914	D906		Q901	Q909						Q905	Q903	D905	Q913			Q908			D902			
			Q912A	D904					Q902			Q910				Q904	Q905	Q911	D901	Q907								
J, L	J901		J902	W903		J905												L901		J903	J904	W902		J908	J906	J907		

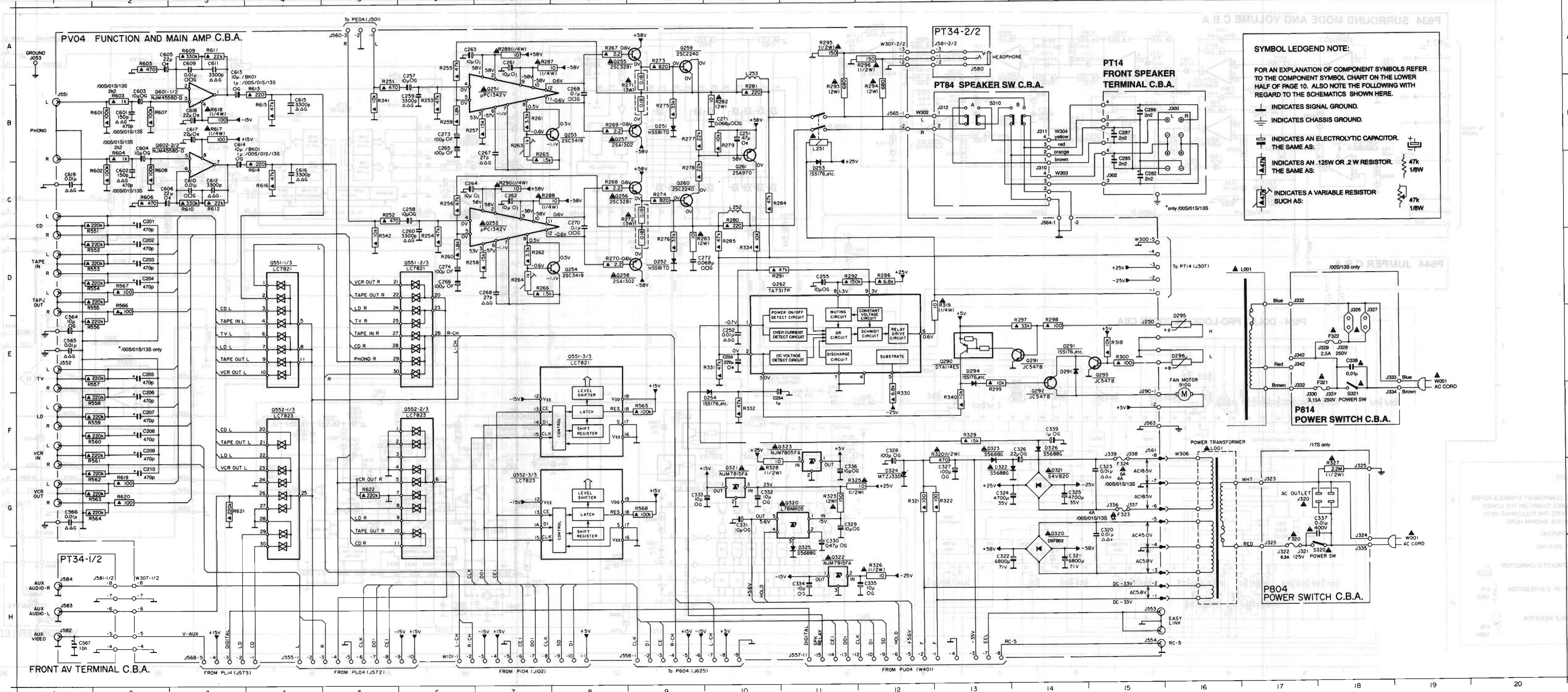
P724 SURROUND AND CENTER AMPLIFIER SCHEMATIC DIAGRAM



R	R929	R937	R939	R930	R940	R926	R916	R924	R943	R934	R944	R921	R917	R915	R911	R925	R930				
	R927	R947	R936		R946		R918	R914	R910	R908	R945	R923	R919		R913	R909	R935	R931			
	R905	R941	R928			R949	R920	R912	R948		R932	R906	R902		R904	R903	R901				
C	C917	C920	C922	C921	C924		C914	C908	C928	C904	C915		C913	C909	C911	C905					
	C923	C918	C916	C919	C926		C912	C910	C907		C906	C902	C901	C903							
Q , D	Q911	Q914	D906			Q905	Q901	Q909	Q903	Q913	Q908	Q906	Q912	Q910	Q904	D901	Q907				
					D902					D905	Q902	D904	D903								
MISC.	W902	J903	J902	W903	W901	J906	J905	W904	J908	L901	J907	J904				W901	W904	J901			
U	U911	U913	U912	U926		U919	U908	U909	U917	U907	U906	U905	U903	U916	U917	U924	U902	U907	U915	U914	U901

SOLDER SIDE VIEW

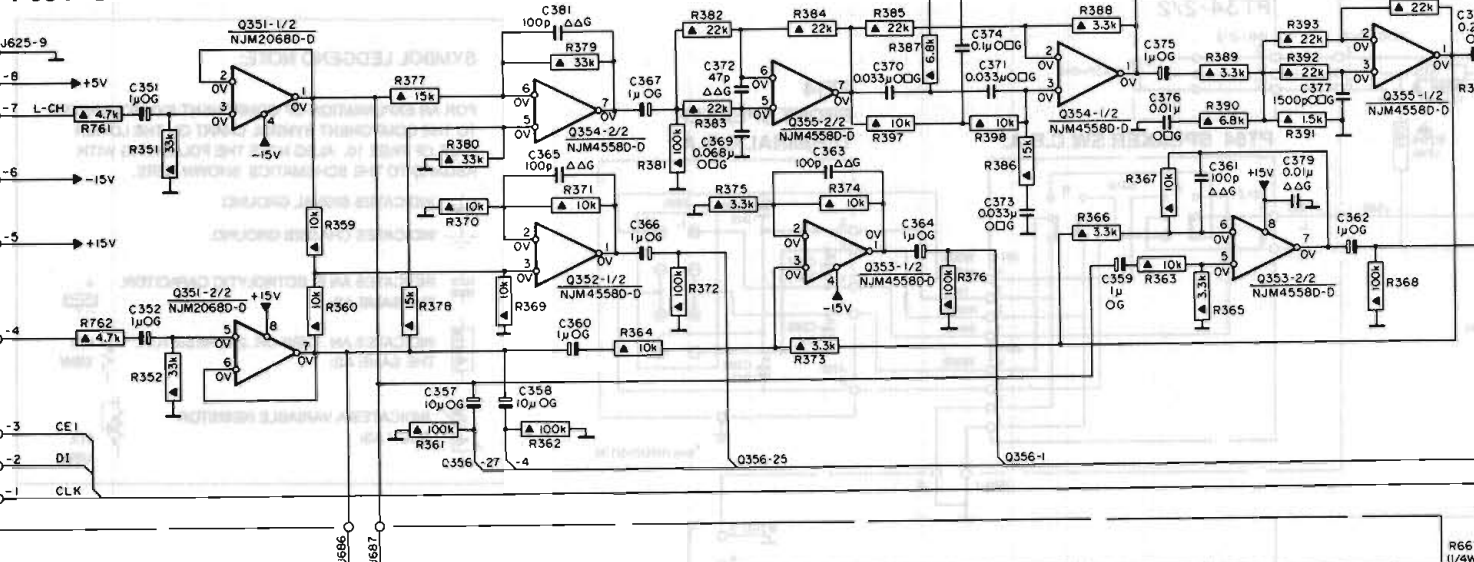


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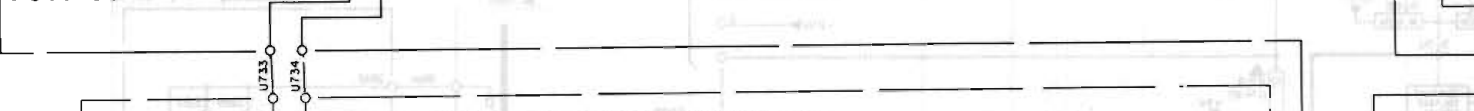
SURROUND MODE AND DECODER SCHEMATIC DIAGRAM

C351 A2	C365 B4	C377 A8	C628 E5	C638 H4	C649 D11	C659 E6	C669 F15	C680 F9	C757 C17	J629 E20	Q355 A9	O627 H9	R352 C2	R368 B8	R378 B3	R388 A7	R398 A6	R633 H4	R643 E7	R654 F16	R665 F9	R666 G11	R758 C7	U676 G19	U686 D3	U725 E8	U732 E10	U740 G18
C352 C6	C366 B5	C378 A9	C629 E6	C639 H5	C650 F8	C660 F11	C670 F15	C681 H11	C758 C18	J630 G19	Q356 A9	O628 G11	R359 B3	R369 B4	R379 A4	R389 A8	R399 A12	R634 H5	R644 F16	R655 F9	R667 D9	R759 C13	U677 D17	U687 D11	U726 F19	U733 D3	U741 H12	
C357 C4	C367 A5	C379 B8	C630 E5	C640 H4	C651 F7	C661 F11	C671 F15	C682 H12	D625 H12	Q351 A2	Q356 B9	O629 F1	R360 B3	R370 B4	R380 B4	R390 A8	R626 H3	R635 H4	R645 F15	R656 F9	R668 H12	R760 C14	U678 D14	U688 D9	U727 F18	U734 D3	U742 H12	
C358 C4	C369 B5	C381 A4	C631 F5	C641 H5	C652 F8	C662 F11	C672 F14	C683 F19	D626 E19	Q352 A2	Q357 B9	O630 E1	R361 C3	R371 B5	R381 B5	R391 A8	R627 H3	R636 H4	R646 F15	R657 G9	R669 H13	R761 A2	U679 D17	U690 D9	U728 E18	U735 E11	U743 G18	
C359 B7	C370 A6	C382 C10	C632 F4	C642 H6	C653 E8	C663 F13	C673 F14	C684 H6	D627 B1	Q353 B8	Q358 C5	O631 C3	R362 C3	R372 B6	R382 A5	R392 A8	R628 H3	R637 H6	R647 F16	R658 G9	R670 C14	R762 C2	U680 F19	U691 D9	U729 E13	U736 E8	U744 H12	
C360 C4	C371 A6	C383 A12	C633 F4	C643 H8	C654 E8	C664 H14	C674 F14	C685 H8	J628 C2	Q354 A7	Q359 B6	O632 C4	R363 C3	R373 C5	R383 A5	R393 A8	R629 F4	R638 F8	R648 F14	R659 F10	R671 A2	U681 F19	U692 D9	U730 E10	U737 G18	U745 H13		
C361 B7	C372 B6	C384 C12	C634 F4	C644 H8	C655 F8	C665 G16	C675 F13	C686 G13	J629 C2	Q355 A7	Q360 B6	O633 C4	R364 C4	R374 B6	R384 A6	R394 A8	R630 F4	R639 F8	R649 F15	R660 F10	R672 C13	U682 D13	U693 D9	U731 G18	U738 H14	U746 H13		
C362 B8	C373 A6	C385 A12	C635 F4	C645 H8	C656 E7	C666 G16	C676 G13	C687 G13	J630 C2	Q356 A7	Q361 B6	O634 C4	R365 C4	R375 B6	R385 A6	R395 A8	R631 F4	R640 E8	R650 F13	R661 A17	R673 C13	U683 D10	U694 D10	U732 G18	U739 E17	U747 H13		
C363 B8	C374 A6	C386 A12	C636 G4	C646 G8	C657 E6	C667 F15	C677 G13	C688 F15	J631 C2	Q357 A7	Q362 B6	O635 C4	R366 C4	R376 B6	R386 A6	R396 A12	R632 H4	R641 F9	R651 F16	R662 F20	R674 C13	U684 D10	U695 D10	U733 E10	U740 G18	U748 H13		
C364 B6	C375 A7	C387 E6	C637 G4	C647 G8	C658 E6	C668 F15	C678 F13	C689 F15	J632 C2	Q358 A5	Q363 B6	O636 C4	R367 B7	R377 A3	R387 A6	R397 A6	R633 H4	R642 E8	R652 F16	R663 F20	R675 C14	U685 D10	U696 D10	U734 E10	U741 H12	U749 G18		

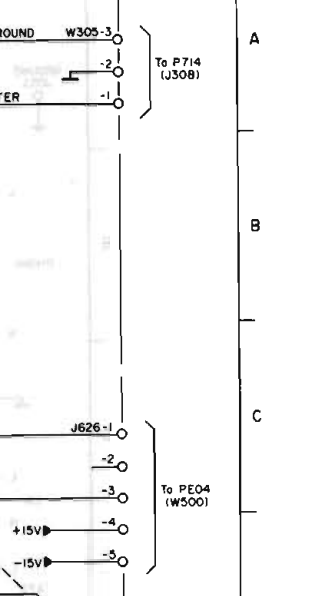
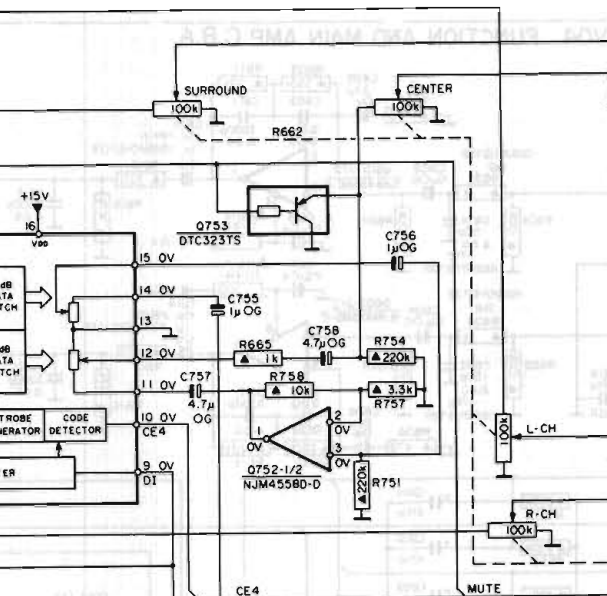
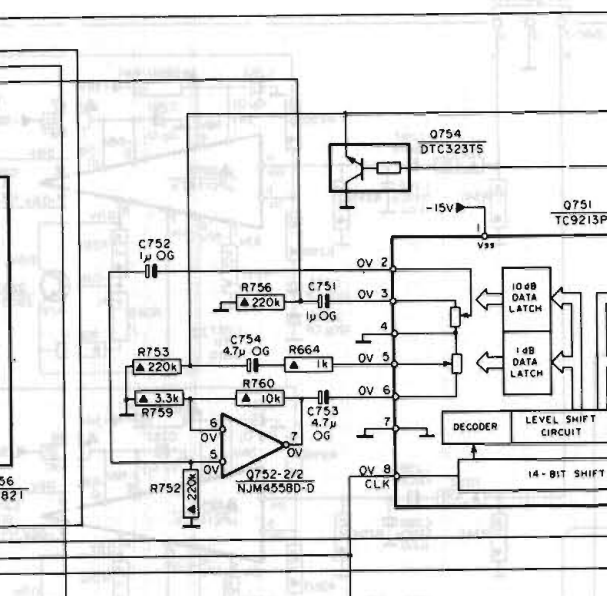
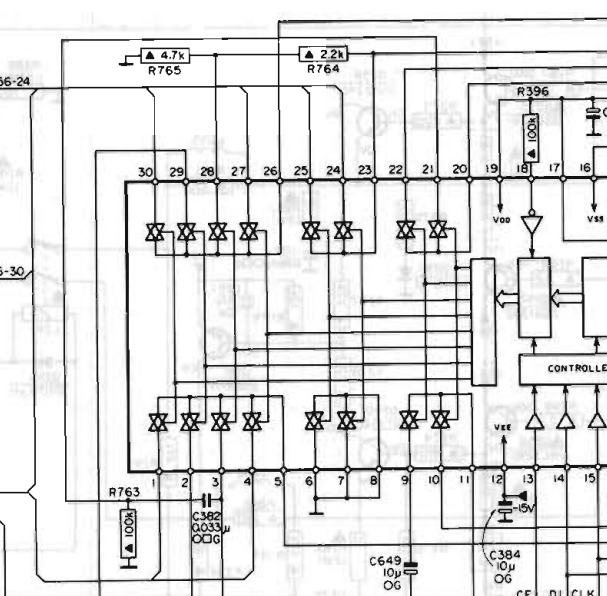
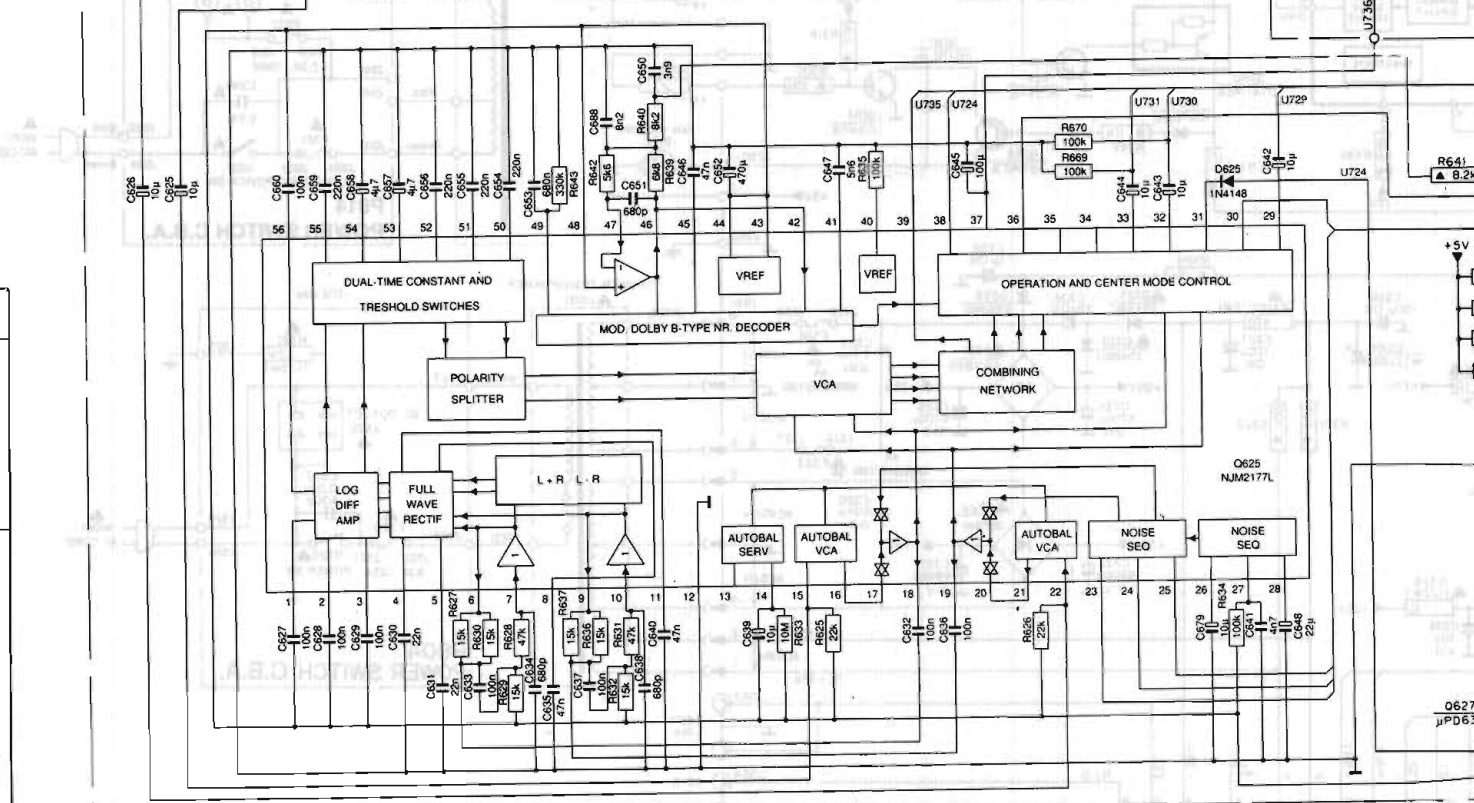
P634 SURROUND MODE AND VOLUME C.B.A



P644 JUMPER C.B.A



P654 - DOLBY PRO-LOGIC DECODER CBA



SYMBOL LEGEND NOTE:

FOR AN EXPLANATION OF COMPONENT SYMBOLS REFER TO THE COMPONENT SYMBOL CHART ON THE LOWER HALF OF PAGE 10. ALSO NOTE THE FOLLOWING WITH REGARD TO THE SCHEMATICS SHOWN HERE.

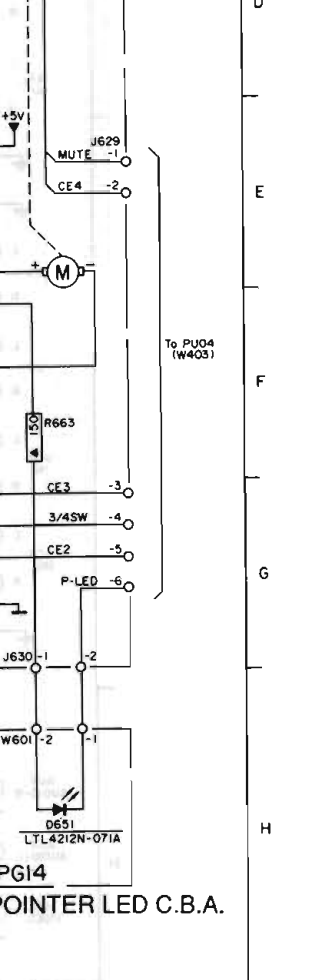
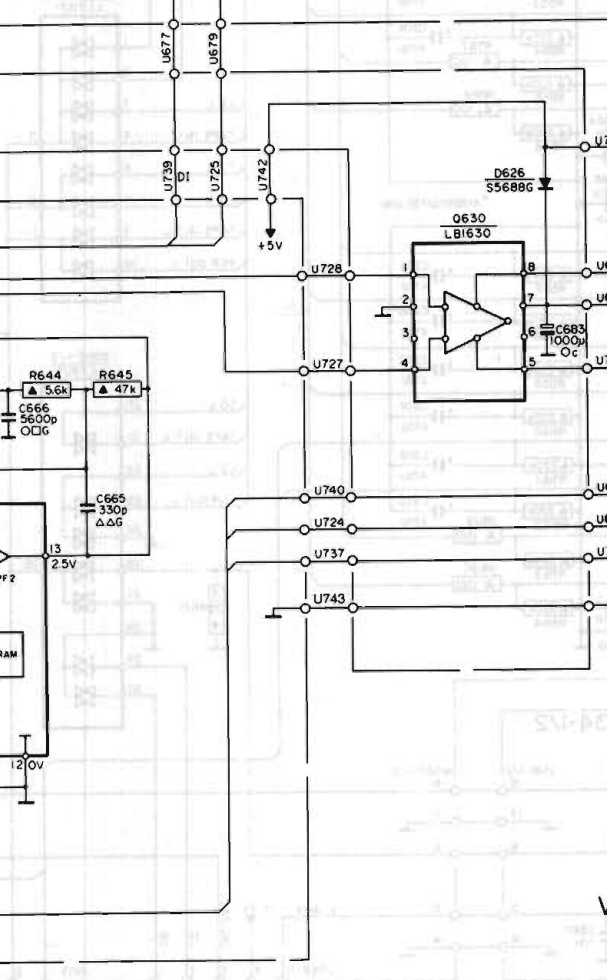
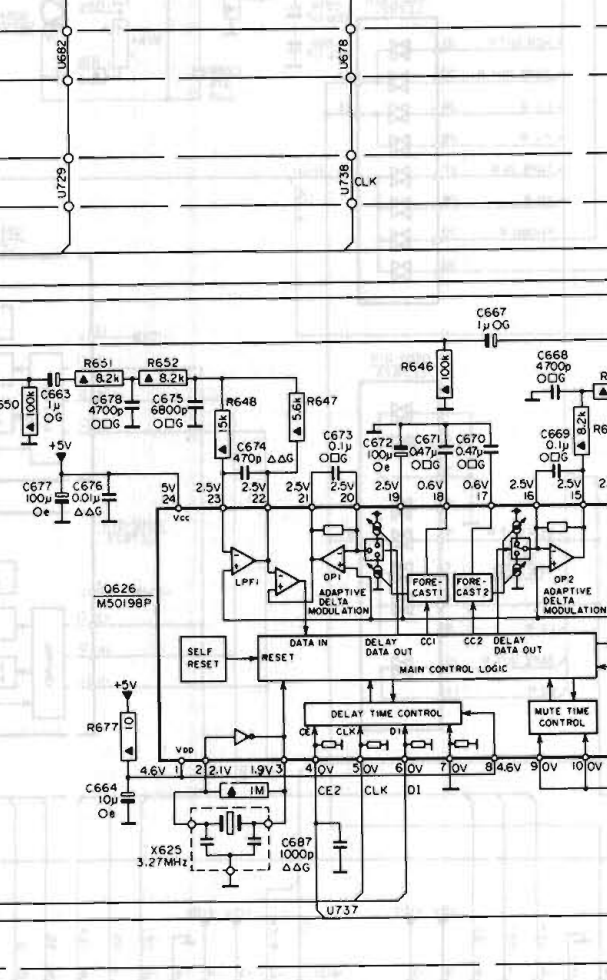
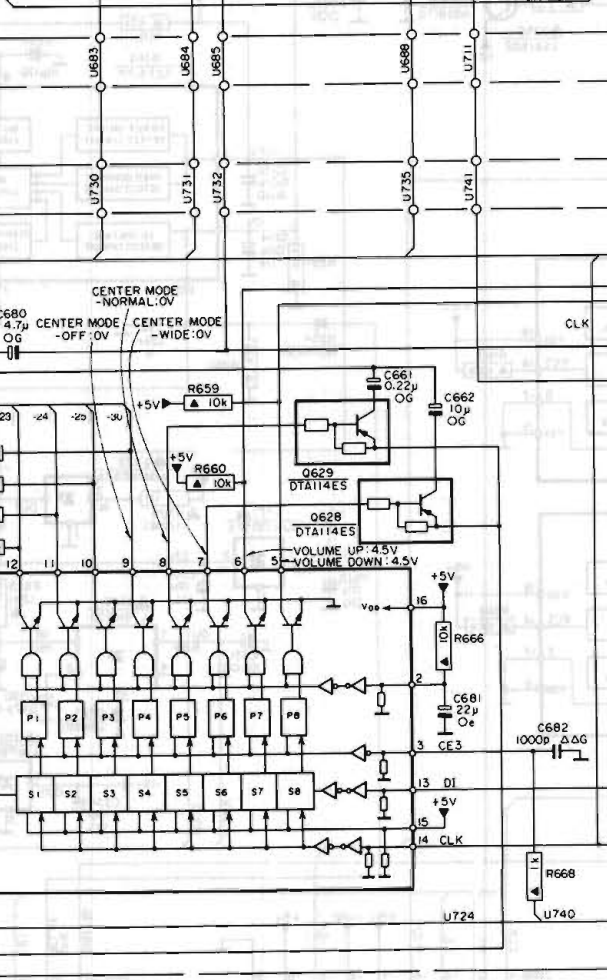
INDICATES SIGNAL GROUND.

INDICATES CHASSIS GROUND.

INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:

INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS:

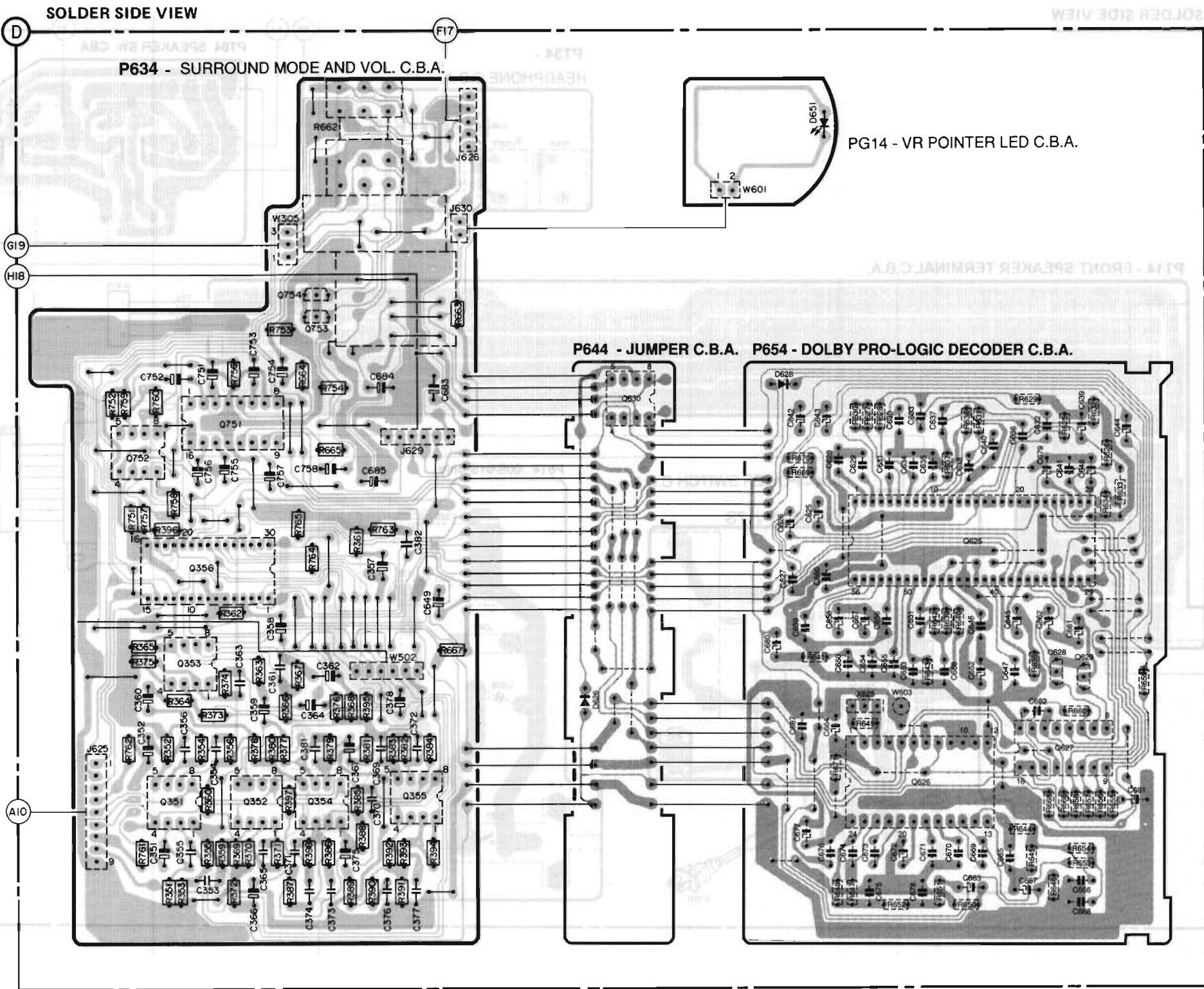
INDICATES A VARIABLE RESISTOR SUCH AS:



VR POINTER LED C.B.A.

[illegible]

R	R752 R751 R396 R756~R762 R753 R662R664 R665 R754 R763~R765 R667 R663	R670 R669	R630 R627 R628	R637 R636 R631	R629	R625 R632 R634 R626 R633	R
	R351~R356 R359~R365 R369~R380 R366~R368 R397 R398 R381~R395		R671	R647 ~ R652 R639 ~ R643	R644 ~ R646 R635 R668 R666 R653 ~ R660		
C	C751~C758 C358 C359 C361~C367 C357 C382 C649	C642 C643 C625 ~ C631	C650 ~ C660 C688	C632 ~ C641 C679	C648	C644	C
	C351~C356	C381	C369~C378	C680 C687	C663 ~ C678 C645 ~ C647 C682 C662 C661	C681	
Q - D	Q752 Q351 Q353 Q356 Q751 Q352 Q754 Q753 Q354	Q355	D626 Q630	D625 D651	Q626 Q625	Q627~Q629	Q - D
X				X625			X



WARNING

Critical components having special safety characteristics are identified with a ▲ by the Ref. No. in the parts list and enclosed within a broken line * (where several critical components are grouped in one area) along with the safety symbol ▲ on the schematics or exploded views.

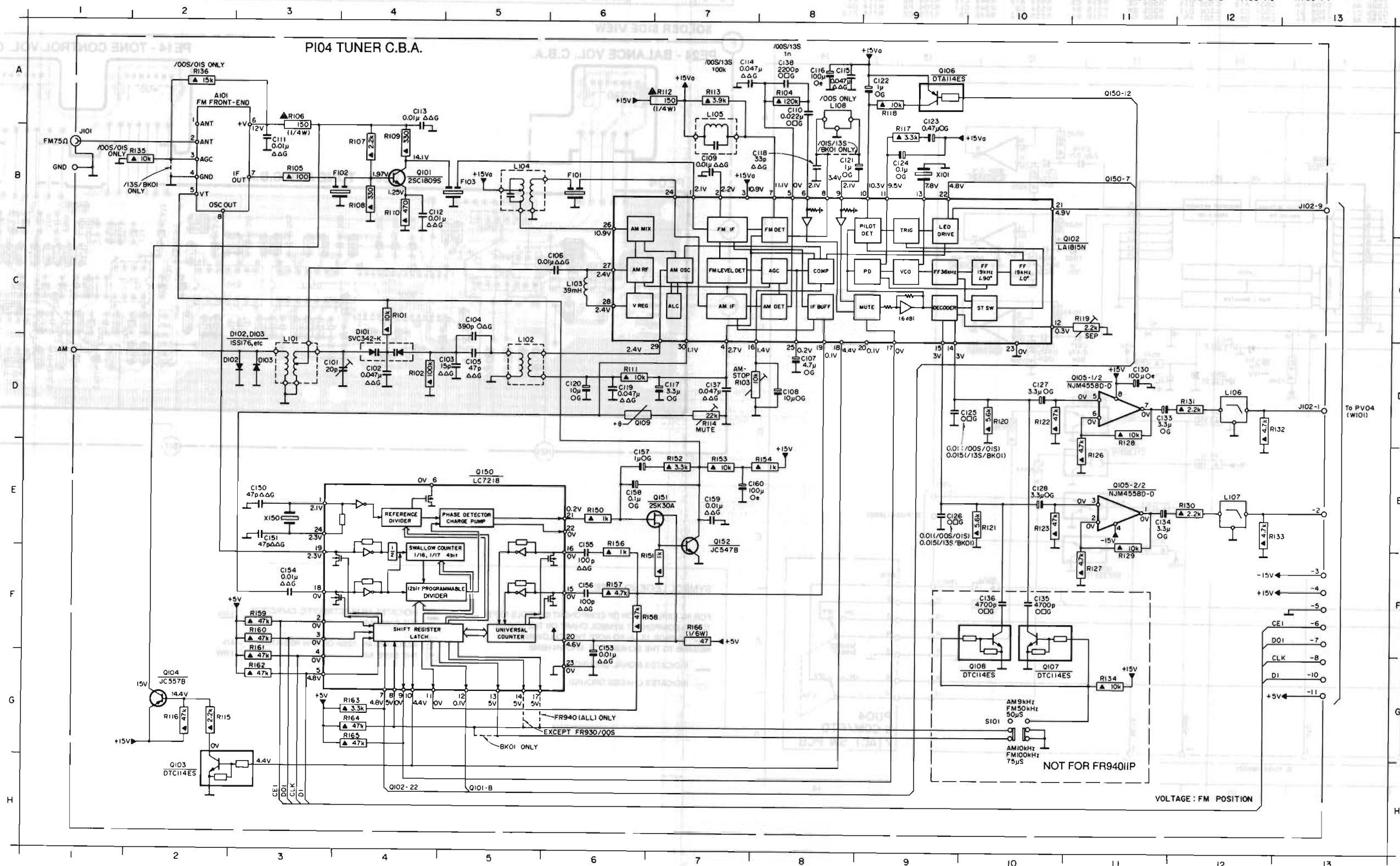
Under no circumstances should the original design be modified or altered without written permission from Philips Consumer Electronics Company. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.

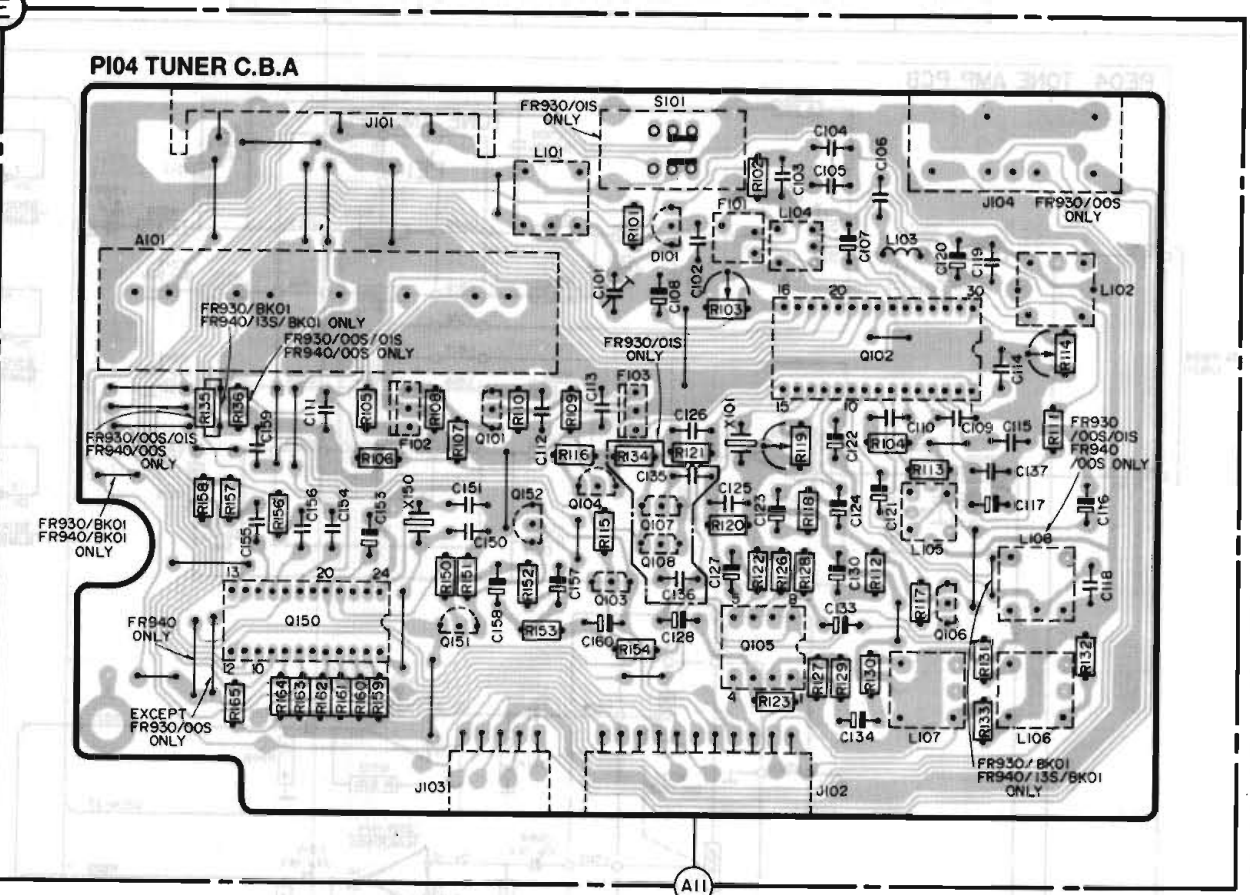
* Broken Line:

TUNER SCHEMATIC DIAGRAM

A101	A2	C110	A6	C120	D6	C133	D11	C154	F3	F101	B6	L105	B7	Q105	E11	R101	C4	R111	D6	R121	E10	R133	E12	R157	F6	X101	B9
C101	D4	C111	B3	C121	B8	C134	E11	C155	F6	F102	B3	L106	D12	Q106	A9	R102	D4	R112	A7	R122	D10	R134	G11	R158	F6	X150	E3
C103	D5	C113	A4	C123	B9	C136	F10	C156	F6	F103	B5	L107	E12	Q107	F10	R103	D7	R113	A7	R123	E10	R135	B2	R159	F3		
C104	C5	C114	A7	C124	B9	C137	D7	C157	E6	F104	B1	L108	H5	Q108	F10	R104	A8	R114	D7	R124	E11	R136	A2	R160	F3		
C105	D5	C115	A8	C125	D9	C138	A8	C158	E6	F105	B13	L109	H5	Q109	D6	R105	B3	R115	G2	R125	F11	R137	E6	R161	G3		
C106	C6	C116	A8	C126	E9	C139	E3	C159	E3	F106	B3	L110	H5	Q110	A11	R106	A3	R116	G2	R126	D11	R138	E7	R162	G3		
C107	D8	C117	D7	C127	D10	C140	E3	C160	E7	F107	B3	L101	D3	Q101	H4	R107	B4	R117	B9	R127	E11	R139	E7	R163	G4		
C108	D8	C118	B8	C128	E10	C141	D3	C161	E3	F108	B3	L102	D5	Q102	H2	R108	B4	R118	A9	R128	E12	R140	E8	R164	G4		
C109	B7	C119	D6	C130	D11	C153	G6	C162	D3	F109	B4	L103	C6	Q103	E2	R109	B4	R119	C11	R129	D12	R141	E8	R165	G4		



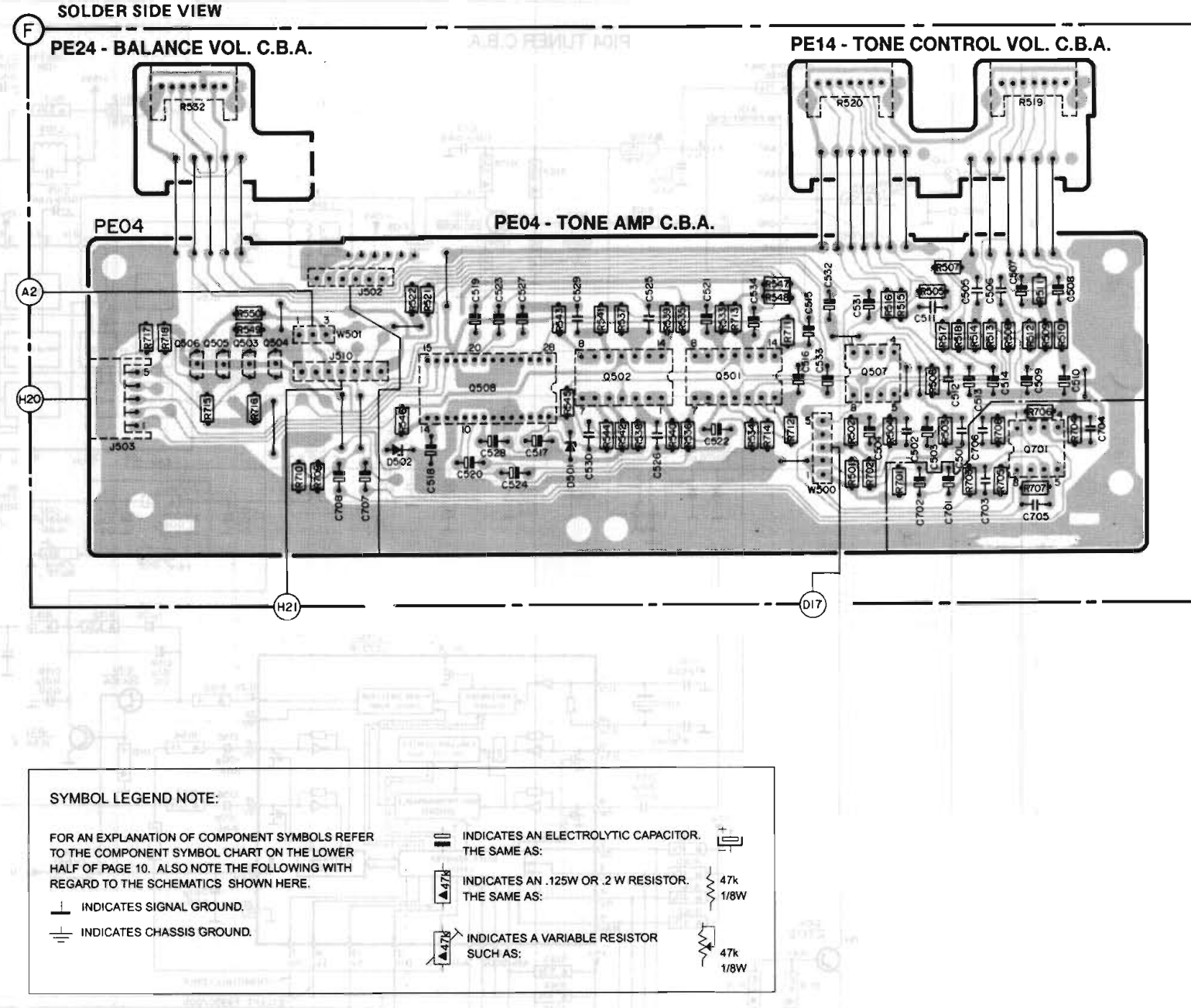
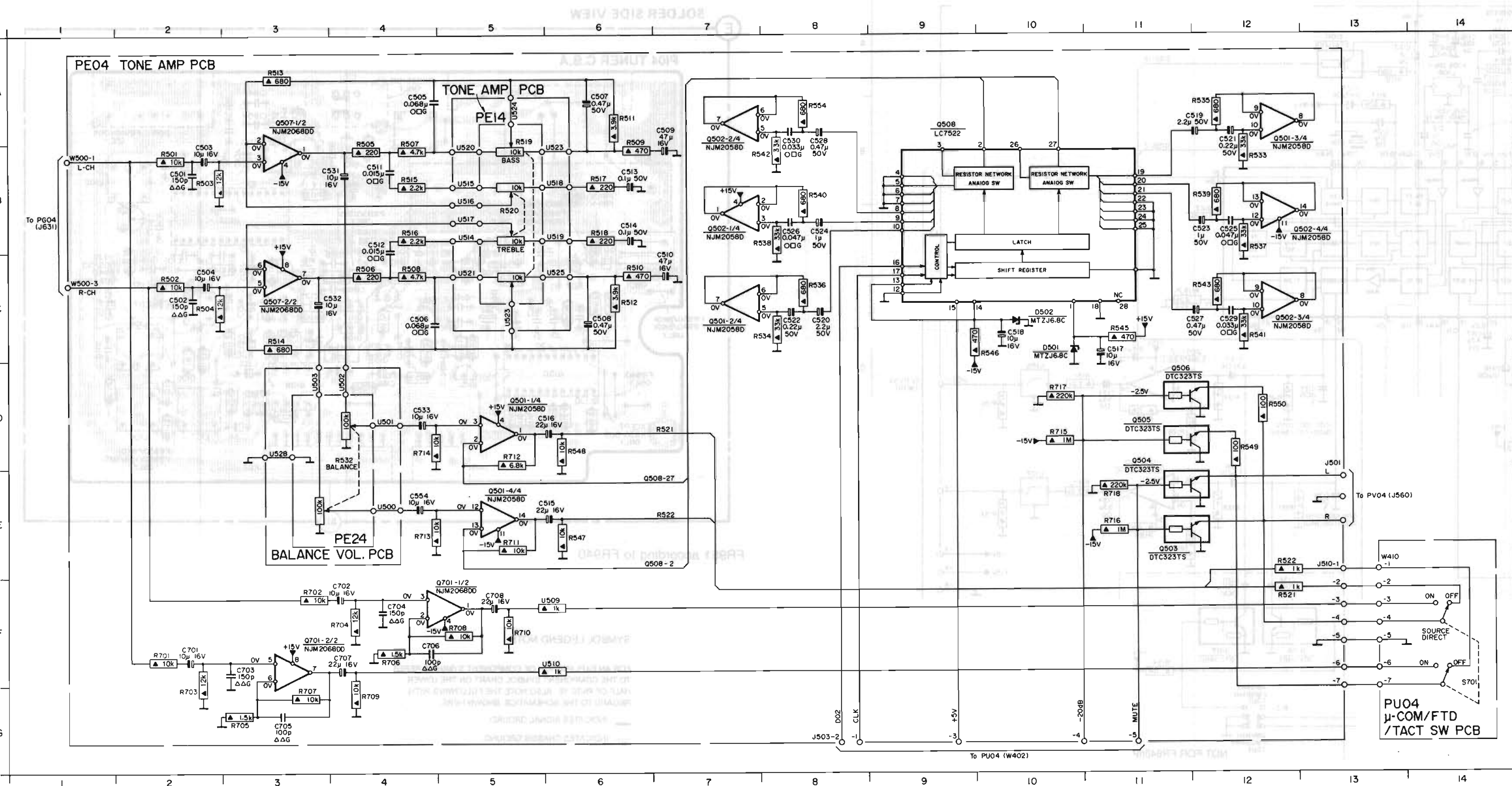
SOLDER SIDE VIEW



FR951 according to FR940

C501 B2	C511 B4	C521 A12	C531 B4	C707 F4	Q501 E5	Q507 C3	R507 B4	R517 B6	R536 C8	R547 E6	R706 F4	R716 E11
C502 C2	C512 B4	C522 C8	C532 C3	C708 F5	Q502 A7	Q508 A9	R508 C4	R518 B6	R537 B12	R548 D6	R707 G3	R717 D10
C503 B2	C513 B6	C523 B12	C533 D4	D501 C10	Q502 B7	Q701 F3	R509 A6	R519 B5	R538 B8	R549 D12	R708 F5	R718 E11
C504 C2	C514 B6	C524 B8	C534 E4	D502 C10	Q502 B12	Q701 F4	R510 C6	R520 B5	R539 B12	R550 D12	R709 G4	R719 E11
C505 A4	C515 E6	C525 B12	C701 F2	J501 E13	Q502 C12	R501 B2	R511 A6	R521 F12	R540 B8	R554 A8	R710 F5	U509 F5
C506 C4	C516 D6	C526 B8	C702 F4	J503 G8	Q503 E11	R502 C2	R512 C6	R522 E12	R541 C12	R701 F2	R711 E5	U510 F5
C507 A6	C517 C11	C527 C12	C703 F3	J510 E13	Q504 E11	R503 B2	R513 A3	R532 D4	R542 B8	R702 F3	R712 D5	
C508 C6	C518 C10	C528 A8	C704 F4	Q501 A12	Q505 D11	R504 C2	R514 C3	R533 A12	R543 C12	R703 G2	R713 E4	
C509 A7	C519 A12	C529 C12	C705 G3	Q501 C7	Q506 D11	R505 B4	R515 B4	R534 C8	R545 C11	R704 F4	R714 D4	
C510 C7	C520 C8	C530 A8	C706 F4	Q501 D5	Q507 A3	R506 C4	R516 B4	R535 A12	R546 C9	R705 G3	R715 D10	

R	R717 R718 R532	R550	R531	R522 R521	R543	R541 R537 R539 R535 R533 R713 R547 R711	R520 R516 R515	R517~R519 R505~R514	R
C	R715	R716	R710 R709	R546	R545 R544 R542 R538 R540 R536 R534 R714 R548 R712	R501~R504 R701~R703	R704~R708	C	
D - Q	Q506 Q505 Q503 Q504	D502	Q508	Q501	Q502	Q501	Q507	D - Q	



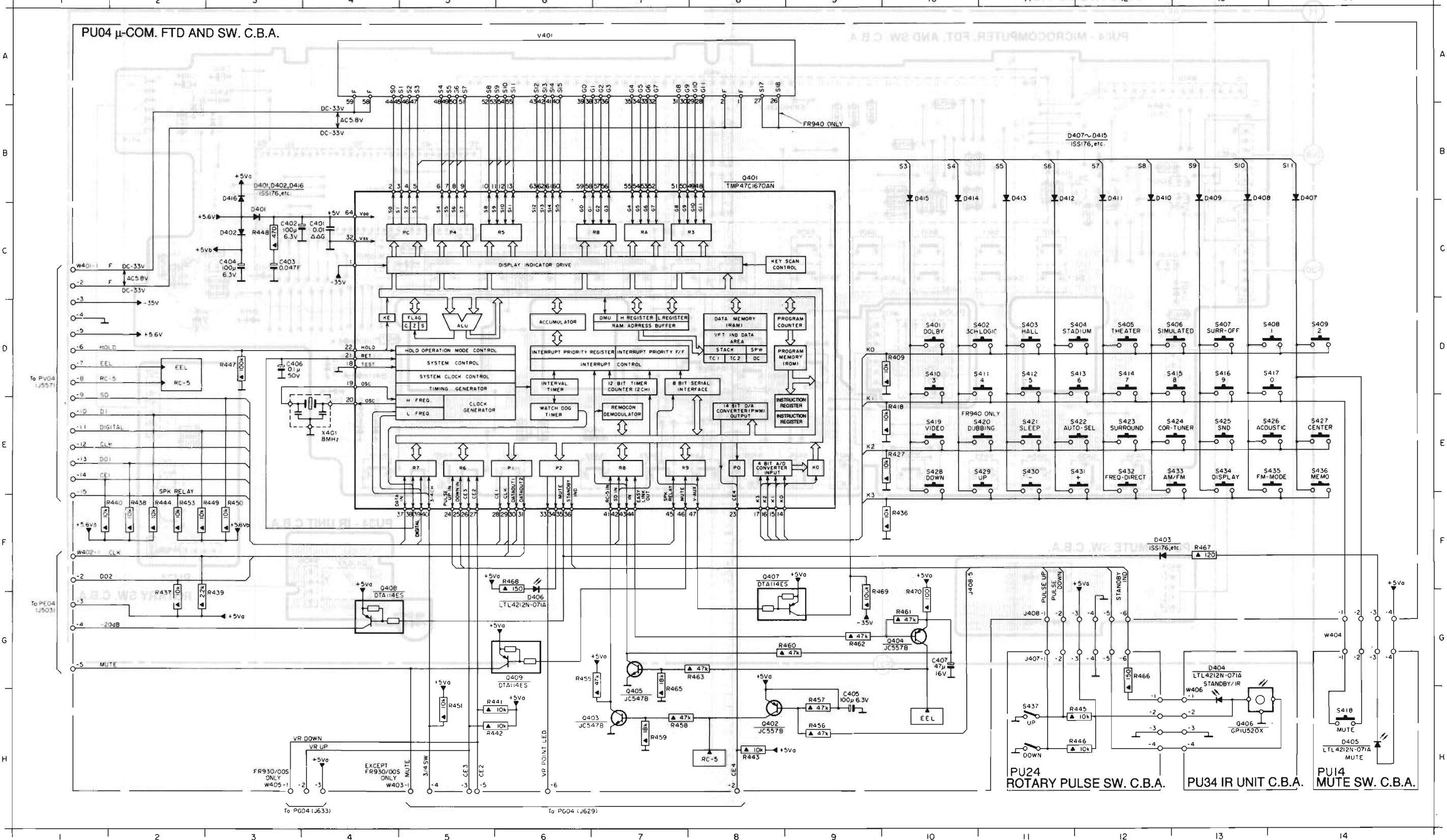
SYMBOL LEGEND NOTE:

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- INDICATES SIGNAL GROUND.
- INDICATES CHASSIS GROUND.
- INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:
- INDICATES AN .125W OR .2W RESISTOR. THE SAME AS:
- INDICATES A VARIABLE RESISTOR SUCH AS:

MICROCOMPUTER, FDT, AND SW. PCB SCHEMATIC DIAGRAM

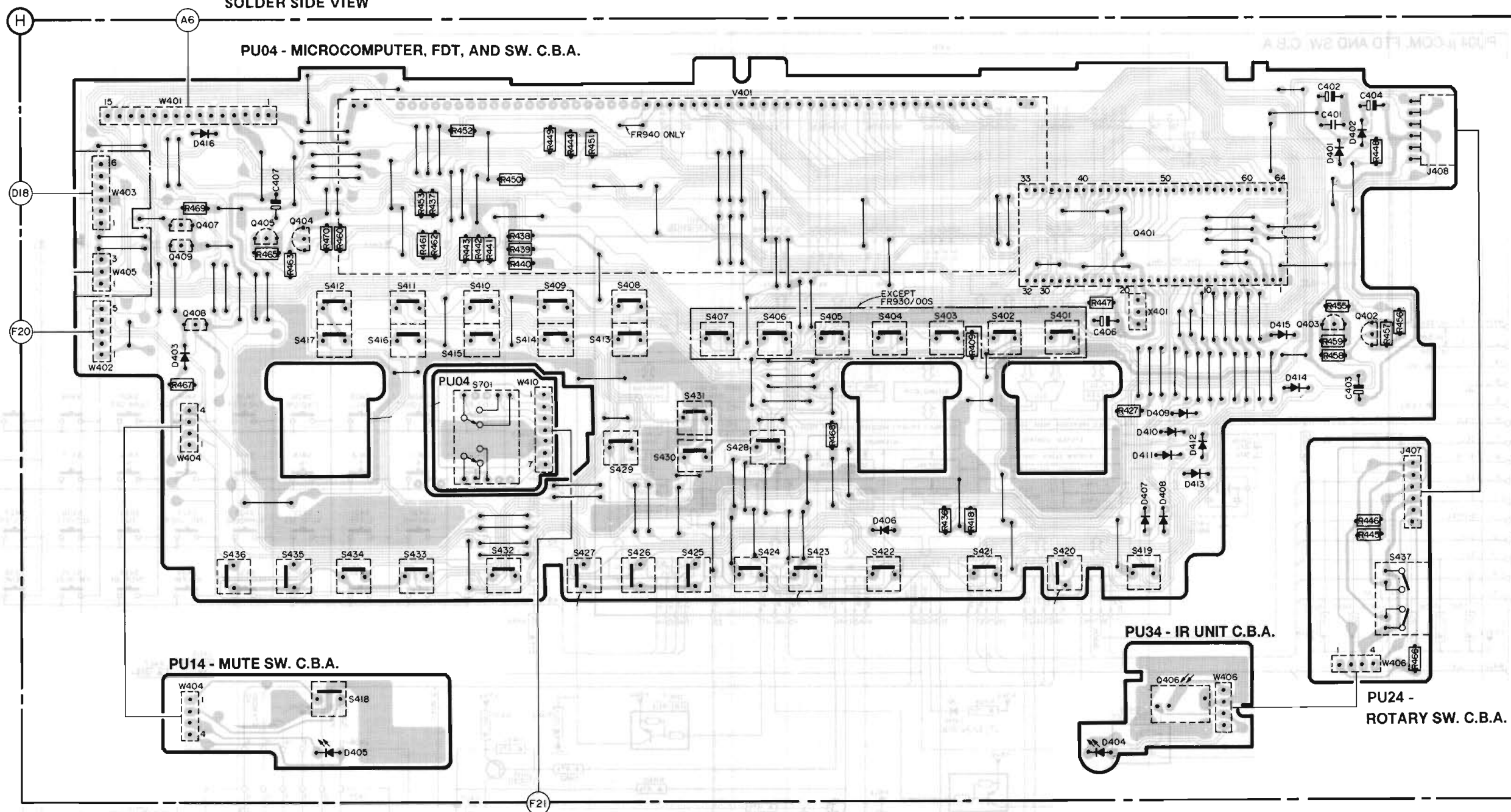
C401 C4	D404 G13	D414 B10	Q401 B8	R418 E10	R444 F2	R456 H9	R467 F13	S407 D13	S417 D14	S427 E14	S437 H11
C402 C3	D405 H14	D415 B10	Q403 H7	R427 E10	R445 H12	R457 H9	R468 F6	S408 D14	S418 D14	S428 E10	V401 A6
C403 C3	D406 G6	D416 B3	Q404 G10	R436 F10	R446 H12	R458 H7	R469 G9	S409 D10	S419 E10	S429 E11	X401 E4
C404 C3	D407 B14	J407 G11	Q405 H7	R437 G2	R447 D3	R459 H7	R470 G10	S410 D10	S420 E11	S430 E11	
C405 H9	D408 B13	J408 F10	Q406 H13	R438 F2	R448 C3	R460 G9	S401 D10	S411 D11	S421 E11	S431 E12	
C406 D3	D409 B13	J409 G11	Q407 G8	R439 G2	R449 F2	R461 G10	S402 D11	S412 D11	S422 E12	S432 E12	
C407 G10	D410 B12	J503 G1	Q408 G4	R440 F1	R450 F3	R462 G9	S403 D11	S413 D12	S423 E12	S433 E13	
D401 C3	D411 B12	J557 D1	Q409 G6	R441 H5	R451 H5	R463 G8	S404 D12	S414 D12	S424 E13	S434 E13	
D402 C3	D412 B11	J629 H6	Q409 G6	R442 H5	R452 H5	R465 H7	S405 D12	S415 D13	S425 E13	S435 E13	
D403 F12	D413 B11	J633 H4	Q409 D10	R443 H8	R455 H7	R466 G12	S406 D13	S416 D13	S426 E14	S436 E14	



R	R467 R469	R465 R463 R470 R460	R453 R437 R461 R462 R452 R438~R444 R449~R451	R468	R436 R418 R409	R447 R427	R455~R459 R445 R446 R448 R466	R		
C	C407						C406	C401~C404	C	
Q ~ D	D403 Q407~Q409 D416 Q405	Q404	D405	D406			D404 Q401 Q406 D407~D413	D415 D414 Q403 D401 D402 Q402	Q ~ D	
S - X	S432~S436		S413~S417	S408~S412	S423~S431	S401~S407	S419~S422	X401	S437	S - X

SOLDER SIDE VIEW

PU04 - MICROCOMPUTER, FDT, AND SW. C.B.A.



PU14 - MUTE SW. C.B.A.

PU34 - IR UNIT C.B.A.

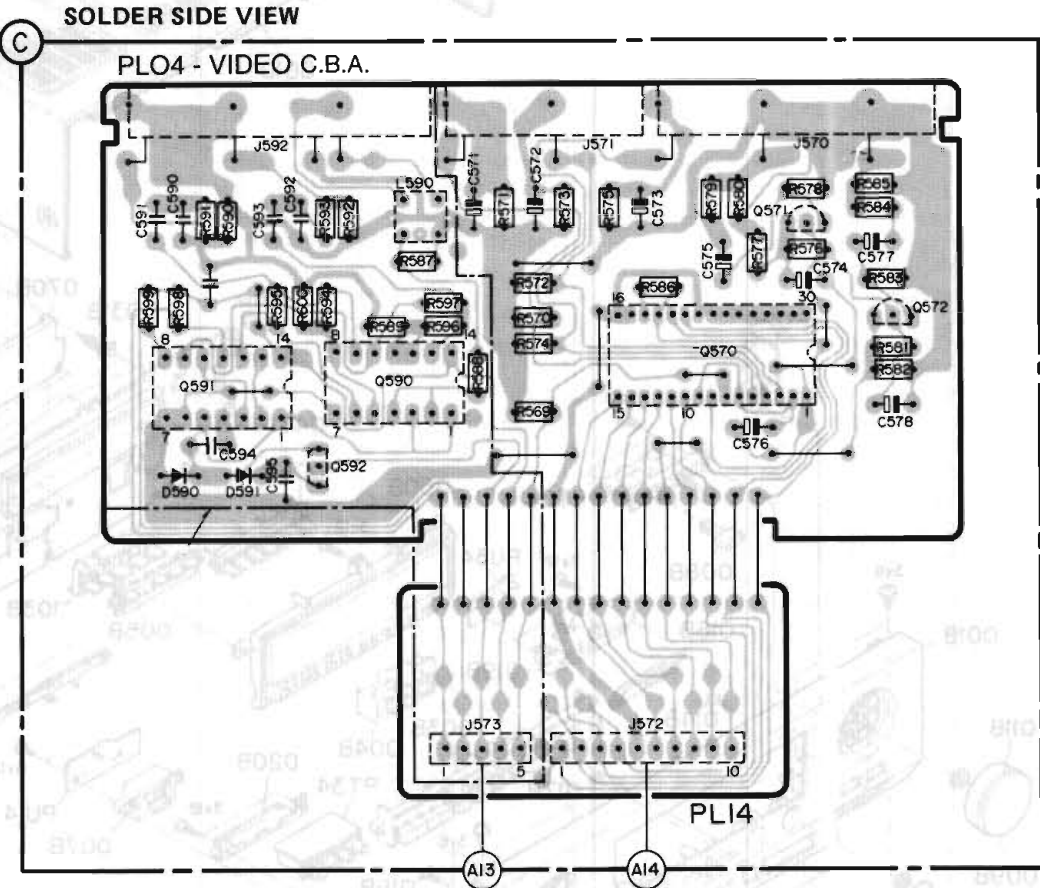
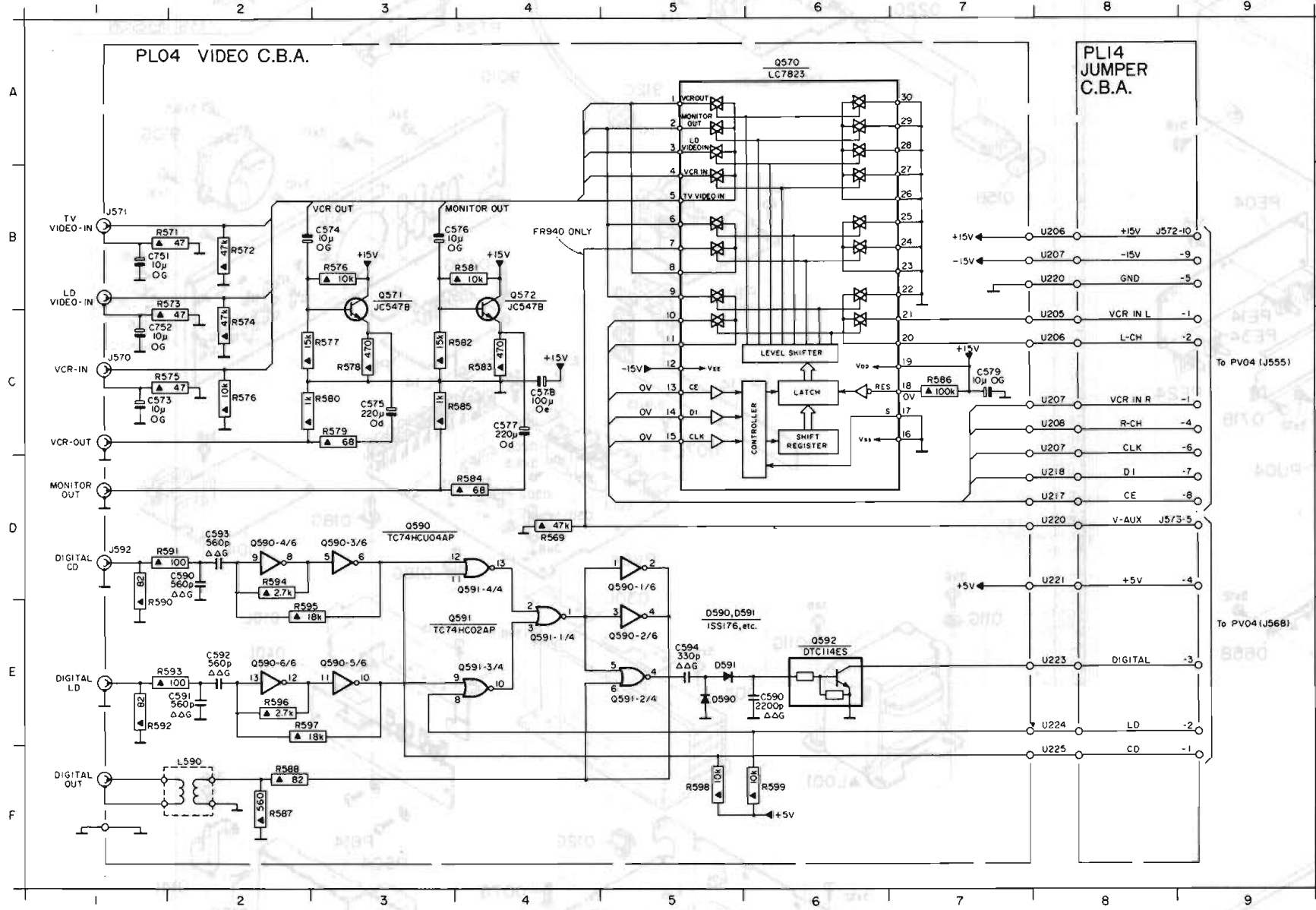
PU24 - ROTARY SW. C.B.A.

VIDEO SCHEMATIC DIAGRAM

EXPLODED VIEWS

C573	C1	C591	E2	J592	D1	Q590	E5	R575	C1	R585	C3	R596	E2
C574	B3	C592	E2	L590	F2	Q591	D4	R576	B3	R586	C7	R597	E2
C575	C3	C593	D2	Q570	A6	Q591	E4	R576	C2	R587	F2	R598	F5
C576	B3	C594	E5	Q571	B3	Q591	E5	R577	C2	R588	F2	R599	F6
C577	C4	C751	B1	Q572	B4	Q592	E6	R578	C3	R589	D1		
C578	C4	C752	C1	Q590	D2	R579	D4	R579	C3	R591	D1		
C579	C7	J570	C1	Q590	D5	R571	B1	R580	C2	R592	E1		
C590	D2	J571	B1	Q590D5		R571	B2	R582	C3	R593	E1		
C590	E5	J572	B9	Q590	E2	R573	B1	R583	C4	R594	D2		
C590	E6	J573	D9	Q590	E3	R574	C2	R584	D4	R595	E2		

R	R599	R598	R600	R590~R595	R587~R589	R597	R596	R569~R575	R586	R580	R576~R580	R581~R585	R		
C	C591	C590	C592~C595			C571	C572		C573	C575	C576	C574	C577	C578	C
Q-D-L	D590	Q591	D591	Q592	Q590	L590				Q570	Q571		Q572	Q-D-L	



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INDICATES AN ELECTROLYTIC CAPACITOR. THE SAME AS:

INDICATES AN .125W OR .2 W RESISTOR. THE SAME AS:

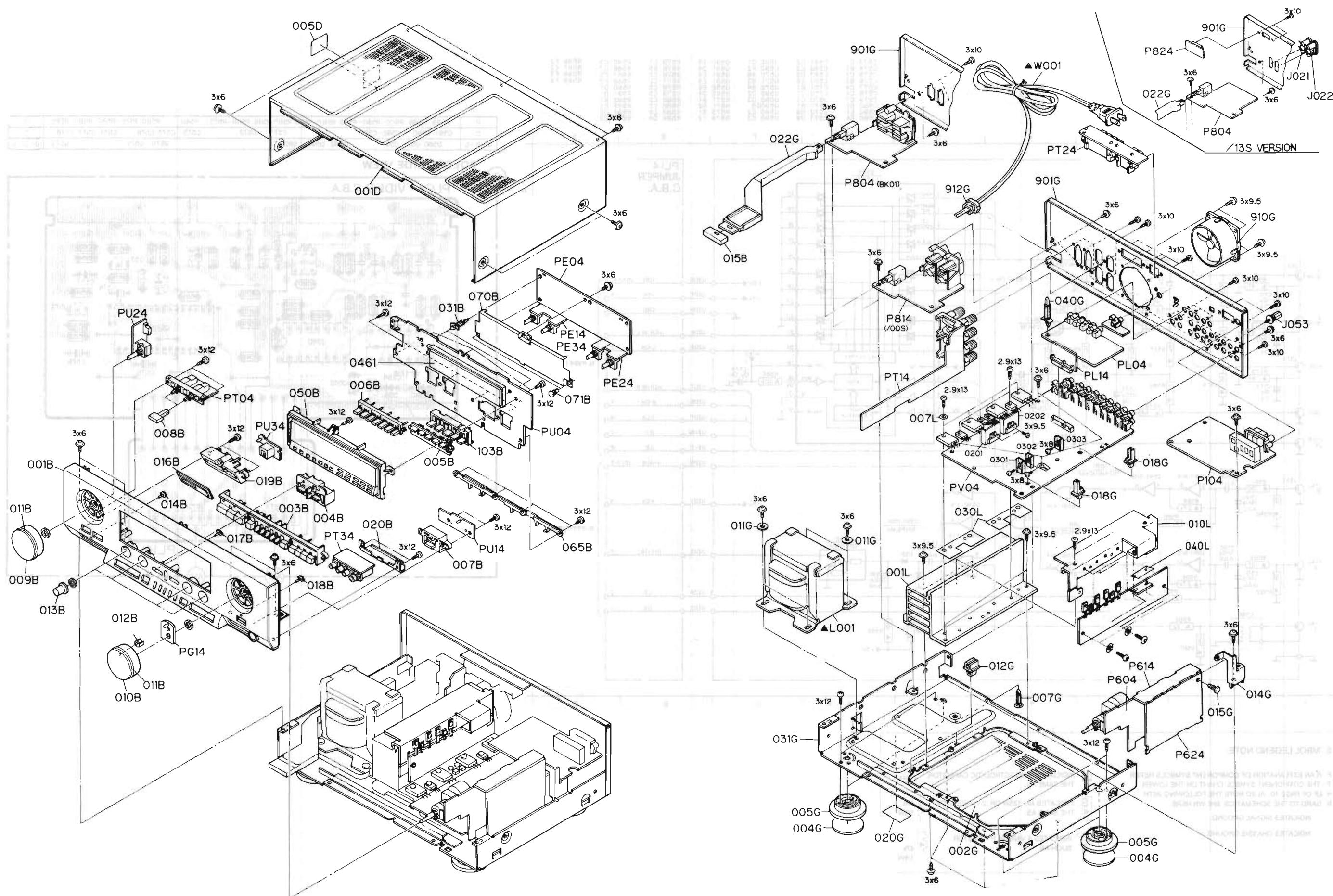
INDICATES A VARIABLE RESISTOR SUCH AS:



47k
1/8W

47k
1/8W

EXPLODED VIEWS



MECHANICAL PARTSLIST

001B	4822 426 51735	FRONT ASSY
001T	4822 736 53839	IFU FR951
001T	4822 736 22125	IFU ONLY/00S
003B	4822 410 62061	BUTTON, NOSE
004B	4822 410 62068	BUTTON,CURSOL
004G	4822 462 41887	RUBBER, LEG
005B	4822 410 62063	BUTTON, 10KEY UPPER
005G	4822 462 41888	LEG
006B	4822 410 62064	BUTTON SURROUND MODE
007B	4822 410 62065	BUTTON, μH TING
008B	4822 410 62066	BUTTON, SPEAKER
009B	4822 413 31708	KNOB, SELECTOR
010B	4822 413 41733	KNOB, VOLUME
011B	4822 532 21449	RUBBER, RING
012B	4822 413 41733	LENS, POINTER
013B	4822 413 41704	KNOB, BALANCE
014B	4822 381 11311	LENS, STANDBY
015B	4822 462 71808	POWER KNOB
016B	4822 381 11347	LENS, IR SENSOR
017B	4822 381 11311	LENS, AUTO SELECTOR
018B	4822 381 11311	LENS, μH TING
022G	4822 404 21245	LEVER, POWER
050B	4822 454 12845	ESCUT ASSY, WINDOW
103B	4822 410 62069	BUTTON, 10KEY LOWER
910G	4822 361 10653	FAN
912G	4822 532 60948	BUSHING, AC CORD
J053	4822 290 40297	TERMINAL GND
L001	4822 146 31269	TRANSFORMER MAINS
L001	4822 146 31392	MAINS TRAFO ONLY/00S
W001	4822 321 10521	MAINS CORD
W001	4822 321 10781	CORD SET ONLY/00S
Z001	4822 218 10469	REM CONRTOL RC6624
Z003	4822 158 60622	AM FRAME AERIAL
Z004	4822 321 61668	PIN CORD ASSY
Z005	4822 303 30314	FM ANTENNA WIRE
Z005	4822 303 50055	FM ANT. ONLY/00S
Z006	4822 264 30265	ANTENNA ADAPTOR

MISCELLANEOUS

A101	4822 210 10397	TUNER FE337-A05
A101	4822 210 10609	FE415-G09 ONLY/00S
F320	4822 253 30399	FUSE 6.3A 125V
F321	4822 253 50145	FUSE 3.15A ONLY/00S
F322	4822 253 30383	FUSE 2.5A ONLY/00S
F323	4822 253 30411	FUSE M5.0A 125V
F323	4822 070 34002	FUSE 4A ONLY/00S
F324	4822 253 30411	FUSE M5.0A 125V
F324	4822 070 34002	FUSE 4A ONLY/00S
J101	4822 290 81537	SOCKET-ANTENNA
J101	4822 290 81672	ANTENNA ONLY/00S
J300	4822 290 40496	SOCKET SPK 8P
J320	4822 267 31286	SOCKET-MAINS 15A 125
J326	4822 265 20594	AC OUTLET ONLY/00S
J327	4822 265 20594	AC OUTLET ONLY/00S
J328	4822 256 30495	CLIP FUSE
J329	4822 256 30487	CLIP FUSE
J511	4822 290 40209	TERMINAL-PCB GND
J551	4822 267 31451	PIN JACK 14/14 2L8P
J552	4822 267 31451	PIN JACK 14/14 2L8P
J553	4822 265 20542	PIN JACK 14/14 2L2P
J554	4822 265 20543	PIN JACK 14/14 1L1P
J563	4822 290 40209	TERMINAL-PCB GND
J570	4822 265 41264	SOCKET-PHONO 3P
J571	4822 265 41263	SOCKET-PHONO 2P
J580	4822 265 20555	JACKS H/PHONE
J582	4822 290 81521	SOCKET-PHONE 1P
J583	4822 290 81522	SOCKET-PHONE 1P
J584	4822 290 81523	SOCKET-PHONE 1P
J592	4822 267 41157	SOCKET 3P
J905	4822 267 31457	SOCKET CINCH
J906	4822 290 81525	SOCKET-SPK 2P
J907	4822 290 81526	SOCKET PUSH TERM
0461	4822 256 91966	HOLDER FL
V401	4822 130 91145	DISPLAY 12-BT-69GK

CAPACITORS

C101	4822 125 60185	TRIMMER 20P 50V
C102	4822 122 40306	47nF 50V
C103	4822 126 12301	15pF 5% 50V
C104	5322 121 54128	390pF 1% 630V
C105	4822 122 31205	47pF 2% 500V
C106	4822 122 30043	10nF 80% 63V
C107	4822 124 21844	4,7μF 50V
C108	4822 124 41284	10μF 50V
C109	4822 122 30043	10nF 80% 63V
C110	4822 121 43144	22nF 10% 50V

C111	4822 122 30043	10nF 80% 63V
C112	4822 122 30043	10nF 80% 63V
C113	4822 122 30043	10nF 80% 63V
C114	4822 122 40306	47nF 50V
C115	4822 122 40306	47nF 50V
C116	4822 124 41139	100μF 16V
C117	4822 124 22284	3,3μF 50V
C118	4822 122 31202	33pF 2% 500V
C119	4822 122 40306	47nF 50V
C120	4822 124 41284	10μF 50V
C121	4822 124 21683	1μF 50V
C122	4822 124 21683	1μF 50V
C123	4822 124 21407	0,47μF 50V
C124	5322 124 41473	0.1μF 20% 63V
C125	4822 121 51305	15nF 10% 50V
C125	4822 121 51304	10N 50V ONLY/00S
C126	4822 121 51305	15nF 10% 50V
C126	4822 121 51304	10N 50V ONLY/00S
C127	4822 124 22284	3,3μF 50V
C128	4822 124 22284	3,3μF 50V
C130	4822 124 41139	100μF 16V
C133	4822 124 22284	3,3μF 50V
C134	4822 124 22284	3,3μF 50V
C137	4822 122 40306	47nF 50V
C138	4822 121 70099	15pF 5%
C138	4822 121 51299	1N 50V ONLY/00S
C150	4822 122 31205	47pF 2% 500V
C151	4822 122 31205	47pF 2% 500V
C153	4822 122 30043	10nF 80% 63V
C154	4822 122 30043	10nF 80% 63V
C157	4822 124 21683	1μF 50V
C158	5322 124 41473	0.1μF 20% 63V
C159	4822 122 30043	10nF 80% 63V
C160	4822 124 41139	100μF 16V
C161	4822 122 30043	10nF 80% 63V
C162	4822 122 30043	10nF 80% 63V
C201	5322 122 32311	470pF ONLY/00S
C202	5322 122 32311	470pF ONLY/00S
C203	5322 122 32311	470pF ONLY/00S
C204	5322 122 32311	470pF ONLY/00S
C205	5322 122 32311	470pF ONLY/00S
C206	5322 122 32311	470pF ONLY/00S
C207	5322 122 32311	470pF ONLY/00S
C208	5322 122 32311	470pF ONLY/00S
C209	5322 122 32311	470pF ONLY/00S
C210	5322 122 32311	470pF ONLY/00S
C211	4822 121 51096	1,5nF 50V
C212	4822 121 51096	1,5nF 50V
C251	4822 124 41287	47μF 16V
C252	4822 122 30043	10nF 80% 63V
C253	4822 124 40181	220μF 20% 10V
C254	4822 124 21683	1μF 50V
C255	4822 124 41284	10μF 50V

C257	4822 124 41284	10μF 50V	C370	4822 121 43145	33nF 10% 50V	C535	5322 122 32334	220pF 10% 100V	C638	5322 122 32052	680pF 10% 100V
C258	4822 124 41284	10μF 50V	C371	4822 121 43145	33nF 10% 50V	C536	5322 122 32334	220pF 10% 100V	C639	4822 124 41402	10μF 20% 50V
C259	4822 122 30099	3,3nF 10% 100V	C372	4822 122 31205	47pF 2% 500V	C537	4822 126 12808	2N2 50V ONLY/00S	C640	4822 121 43526	47nF 5% 250V
C260	4822 122 30099	3,3nF 10% 100V	C373	4822 121 43145	33nF 10% 50V	C564	4822 124 41284	10μF 50V	C641	4822 121 51303	4,7nF 10% 50V
C261	5322 124 40641	10μF 20% 100V	C374	5322 121 42386	100nF 5% 63V	C565	4822 122 30043	10nF 80% 63V	C642	4822 124 41402	10μF 20% 50V
C262	5322 124 40641	10μF 20% 100V	C375	4822 124 21683	1μF 50V	C566	4822 122 30043	10nF 80% 63V	C643	4822 124 41284	10μF 50V
C263	5322 124 40641	10μF 20% 100V	C376	4822 121 51304	10nF 10% 50V	C567	4822 122 33307	10N 50V ONLY/00S	C644	4822 124 41402	10μF 20% 50V
C264	5322 124 40641	10μF 20% 100V	C377	4822 121 51096	1,5nF 50V	C571	4822 124 41284	10μF 50V	C645	4822 124 41643	100μF 20% 16V
C265	4822 124 22262	100μF 35V	C378	4822 124 40746	0,22μF 20% 63V	C572	4822 124 41284	10μF 50V	C646	4822 121 43526	47nF 5% 250V
C266	4822 124 22262	100μF 35V	C382	4822 121 43145	33nF 10% 50V	C573	4822 124 41284	10μF 50V	C647	4822 121 70176	5,6nF 10% 50V
C267	5322 122 32776	27pF 2% 500V	C383	4822 124 41284	10μF 50V	C574	4822 124 41284	10μF 50V	C648	5322 124 41431	22μF 20% 35V
C268	5322 122 32776	27pF 2% 500V	C384	4822 124 41284	10μF 50V	C575	4822 124 40181	220μF 20% 10V	C649	4822 124 41284	10μF 50V
C269	5322 121 42386	100nF 5% 63V	C401	4822 122 30043	10nF 80% 63V	C576	4822 124 41284	10μF 50V	C650	4822 121 51302	3,9nF 10% 50V
C270	5322 121 42386	100nF 5% 63V	C402	4822 126 10935	100μF 10V	C577	4822 124 40181	220μF 20% 10V	C651	5322 122 32052	680pF 10% 100V
C271	5322 121 42465	68nF 5% 63V	C403	4822 124 23128	47000μF 5,5V	C578	4822 124 41139	100μF 16V	C652	4822 124 21852	470μF 16V
C272	5322 121 42465	68nF 5% 63V	C404	4822 126 10935	100μF 10V	C579	4822 124 41284	10μF 50V	C653	5322 121 42498	680nF 5% 63V
C273	4822 124 22262	100μF 35V	C405	4822 126 10935	100μF 10V	C591	5322 122 32334	220pF 10% 100V	C654	4822 121 42868	220nF 5% 50V
C274	4822 124 22262	100μF 35V	C406	4822 124 41604	0,1μF 50V	C593	5322 122 32334	220pF 10% 100V	C655	4822 121 42868	220nF 5% 50V
C282	4822 126 12808	2N2 ONLY/00S	C407	4822 124 23056	47μF 20% 16V	C594	4822 126 12671	330pF 10% YB 50V	C656	4822 121 42868	220nF 5% 50V
C285	4822 126 12808	2N2 ONLY/00S	C408	4822 122 30043	10nF 80% 63V	C595	4822 126 12808	2,2nF 10% YB 50V	C657	4822 124 40246	4,7μF 20% 63V
C286	4822 126 12808	2N2 ONLY/00S	C501	4822 122 33298	150pF 5% 50V	C601	4822 122 33298	150pF 5% 50V	C658	4822 124 40246	4,7μF 20% 63V
C287	4822 126 12808	2N2 ONLY/00S	C502	4822 122 33298	150pF 5% 50V	C601	5322 122 32311	470pF ONLY/00S	C659	4822 121 42868	220nF 5% 50V
C290	4822 124 41284	10μF 50V	C503	4822 124 21894	10μF 16V	C602	4822 122 33298	150pF 5% 50V	C660	5322 121 42386	100nF 5% 63V
C320	4822 126 12453	0,01μF 500V	C504	4822 124 21894	10μF 16V	C602	5322 122 32311	470pF ONLY/00S	C661	4822 124 40746	0,22μF 20% 63V
C321	4822 124 80864	6800μF 20% 71V	C505	5322 121 42662	68nF 5% 250V	C603	4822 124 41284	10μF 50V	C662	4822 124 41284	10μF 50V
C322	4822 124 80864	6800μF 20% 71V	C506	5322 121 42662	68nF 5% 250V	C604	4822 124 41284	10μF 50V	C663	4822 124 21683	1μF 50V
C323	4822 126 12453	0,01μF 500V	C507	4822 124 42202	0,47μF 20% 50V	C605	4822 124 21821	22μF 16V	C664	4822 124 41284	10μF 50V
C324	4822 124 80463	4700μF 20% 35V	C508	4822 124 42202	0,47μF 20% 50V	C606	4822 124 21821	22μF 16V	C665	5322 122 32335	330pF 10% 100V
C325	4822 124 80463	4700μF 20% 35V	C509	4822 124 23056	47μF 20% 16V	C609	4822 121 51304	10nF 10% 50V	C666	4822 121 70176	5,6nF 10% 50V
C326	4822 124 41665	22μF 50V	C510	4822 124 23056	47μF 20% 16V	C610	4822 121 51304	10nF 10% 50V	C667	4822 124 21683	1μF 50V
C327	4822 124 22008	100μF 50V	C511	4822 121 51305	15nF 10% 50V	C611	4822 122 30099	3,3nF 10% 100V	C668	4822 121 51303	4,7nF 10% 50V
C328	4822 124 22008	100μF 50V	C512	4822 121 51305	15nF 10% 50V	C612	4822 122 30099	3,3nF 10% 100V	C669	5322 121 42386	100nF 5% 63V
C329	4822 124 41284	10μF 50V	C513	4822 124 41604	0,1μF 50V	C613	4822 124 41284	10μF 50V	C670	4822 121 51252	470nF 5% 63V
C330	4822 124 21407	0,47μF 50V	C514	4822 124 41604	0,1μF 50V	C613	4822 124 40242	1U 50V ONLY/00S	C671	4822 121 51252	470nF 5% 63V
C331	4822 124 41284	10μF 50V	C515	4822 124 23055	22μF 20% 16V	C614	4822 124 41284	10μF 50V	C672	4822 124 41139	100μF 16V
C332	4822 124 41284	10μF 50V	C516	4822 124 23055	22μF 20% 16V	C614	4822 124 40242	1U 50V ONLY/00S	C673	5322 121 42386	100nF 5% 63V
C333	4822 124 41284	10μF 50V	C517	4822 124 21894	10μF 16V	C615	4822 122 30099	3,3nF 10% 100V	C674	5322 122 32311	470pF 10% 100V
C334	4822 124 41284	10μF 50V	C518	4822 124 21894	10μF 16V	C616	4822 122 30099	3,3nF 10% 100V	C675	4822 121 51348	6,8nF 10% 50V
C335	4822 124 41284	10μF 50V	C519	4822 124 40786	2,2μF 20% 63V	C617	4822 124 21821	22μF 16V	C676	4822 122 30043	10nF 80% 63V
C336	4822 124 41284	10μF 50V	C520	4822 124 40786	2,2μF 20% 63V	C618	4822 124 21821	22μF 16V	C677	4822 124 41139	100μF 16V
C337	4822 122 33276	0,01μF 400V	C521	4822 124 21895	0,22μF 50V	C619	4822 122 30043	10nF 80% 63V	C678	4822 121 51303	4,7nF 10% 50V
C338	4822 126 13332	10N 400V ONLY/00S	C522	4822 124 21895	0,22μF 50V	C625	4822 124 41284	10μF 50V	C679	4822 124 41402	10μF 20% 50V
C339	4822 124 21683	1μF 50V	C523	4822 124 23053	1μF 20% 50V	C626	4822 124 41284	10μF 50V	C680	4822 124 21844	4,7μF 50V
C351	4822 124 21683	1μF 50V	C524	4822 124 23053	1μF 20% 50V	C627	5322 121 42386	100nF 5% 63V	C681	4822 124 21821	22μF 16V
C352	4822 124 21683	1μF 50V	C525	4822 121 43526	47nF 5% 250V	C628	5322 121 42386	100nF 5% 63V	C682	5322 122 32331	1nF 10% 100V
C357	4822 124 41284	10μF 50V	C526	4822 121 43526	47nF 5% 250V	C629	5322 121 42386	100nF 5% 63V	C683	4822 124 40728	1000μF 20% 6,3V
C358	4822 124 41284	10μF 50V	C527	4822 124 42202	0,47μF 20% 50V	C630	4822 121 43144	22nF 10% 50V	C687	5322 122 32331	1nF 10% 100V
C359	4822 124 21683	1μF 50V	C528	4822 124 42202	0,47μF 20% 50V	C631	4822 121 43144	22nF 10% 50V	C688	4822 121 43898	8,2nF 5% 250V
C360	4822 124 21683	1μF 50V	C529	4822 121 43145	33nF 10% 50V	C632	5322 121 42386	100nF 5% 63V	C701	4822 124 22826	10μF 16V
C362	4822 124 21683	1μF 50V	C530	4822 121 43145	33nF 10% 50V	C633	5322 121 42386	100nF 5% 63V	C702	4822 124 22826	10μF 16V
C364	4822 124 21683	1μF 50V	C531	4822 124 21894	10μF 16V	C634	5322 122 32052	680pF 10% 100V	C703	4822 122 31072	47pF 2% 100V
C366	4822 124 21683	1μF 50V	C532	4822 124 21894	10μF 16V	C635	4822 121 43526	47nF 5% 250V	C704	4822 122 31072	47pF 2% 100V
C367	4822 124 21683	1μF 50V	C533	4822 124 21894	10μF 16V	C636	5322 121 42386	100nF 5% 63V	C707	4822 124 23055	22μF 20% 16V
C369	5322 121 42465	68nF 5% 63V	C534	4822 124 21894	10μF 16V	C637	5322 121 42386	100nF 5% 63V	C708	4822 124 23055	22μF 20% 16V

C709	5322 122 32334	220pF 10% 100V	D324	4822 130 81729	MTZJ33D	TRANSISTORS & IC's	Q507	4822 209 73064	NJM2068D-D
C710	5322 122 32334	220pF 10% 100V	D325	4822 130 80839	S5688G		Q508	4822 209 71783	LC7522
C751	4822 124 21683	1μF 50V	D326	4822 130 80839	S5688G	Q101 4822 130 62294 2SC1809S(P) Q102 4822 209 31001 LA1851N Q103 4822 130 60588 DTC114ΩS Q104 4822 130 62386 JC557B Q105 4822 209 83631 NJM4558D-D Q106 4822 130 60766 DTA114ΩS Q109 4822 126 90002 ZPA21BB251B1UA Q150 4822 209 30178 LC7218 Q151 4822 130 42121 2SK30A Q152 4822 130 40959 JC547B Q251 4822 209 31613 UPC1342V Q252 4822 209 31613 UPC1342V Q253 4822 130 60117 2SC3419Y Q254 4822 130 60117 2SC3419Y Q255 4822 130 63121 2SC3281(O) Q256 4822 130 63121 2SC3281(O) Q257 4822 130 63119 2SA1302(O) Q258 4822 130 63119 2SA1302(O) Q259 4822 130 41312 2SC2240BL Q260 4822 130 41312 2SC2240BL Q261 4822 130 42951 2SA970GR Q262 4822 209 83312 TA7317P Q290 4822 130 60766 DTA114ΩS Q291 4822 130 40959 JC547B Q293 4822 130 40959 JC547B Q320 4822 209 70385 L78MR05 Q321 4822 209 83317 NJM7815FA Q322 4822 209 31864 NJM7915FA Q323 4822 209 31631 NJM7805FA Q351 4822 209 73064 NJM2068D Q352 4822 209 83631 NJM4558D-D Q353 4822 209 83631 NJM4558D-D Q354 4822 209 83631 NJM4558D-D Q355 4822 209 83631 NJM4558D-D Q356 4822 209 72748 LC7821 Q401 4822 209 32627 TMP47C1670AN-H056 Q402 4822 130 62386 JC557B Q403 4822 130 40959 JC547B Q404 4822 130 62386 JC557B Q405 4822 130 40959 JC547B Q406 4822 214 52009 RCR GP1U58XP Q407 4822 130 60766 DTA114ΩS Q408 4822 130 60766 DTA114ΩS Q409 4822 130 60766 DTA114ΩS Q501 4822 209 70044 NJM2058D Q502 4822 209 70044 NJM2058D Q503 4822 130 61723 DTC323TS Q504 4822 130 61723 DTC323TS Q505 4822 130 61723 DTC323TS Q506 4822 130 61723 DTC323TS	Q551	4822 209 72748	LC7821
C752	4822 124 21683	1μF 50V	D401	4822 130 33305	1SS133T-77		Q552	4822 209 73731	LC7823
C753	4822 124 21844	4,7μF 50V	D402	4822 130 33305	1SS133T-77		Q570	4822 209 73731	LC7823
C754	4822 124 21844	4,7μF 50V	D403	4822 130 33305	1SS133T-77		Q571	4822 130 40959	JC547B
C755	4822 124 21683	1μF 50V	D404	4822 130 82978	LTL-16kPE-P-071A RED		Q572	4822 130 40959	JC547B
C756	4822 124 21683	1μF 50V	D405	4822 130 82978	LTL-16kPE-P-071A RED		Q590	4822 209 72323	TC74HCU04P
C757	4822 124 21844	4,7μF 50V	D406	4822 130 82978	LTL-16kPE-P-071A RED		Q591	4822 209 30116	TC74HC02AP
C758	4822 124 21844	4,7μF 50V	D407	4822 130 33305	1SS133T-77		Q592	4822 130 60588	DTC114ΩS
C759	4822 122 40306	47nF 50V	D408	4822 130 33305	1SS133T-77		Q601	4822 209 83631	NJM4558D-D
C901	4822 124 41284	10μF 50V	D409	4822 130 33305	1SS133T-77		Q625	4822 209 32693	NJM2177L
C902	5322 122 32311	470pF 10% 100V	D410	4822 130 33305	1SS133T-77	Q626	4822 209 31573	M50198P	
C903	4822 124 41284	10μF 50V	D411	4822 130 33305	1SS133T-77	Q627	4822 209 31574	UPD6345C	
C904	4822 124 41284	10μF 50V	D412	4822 130 33305	1SS133T-77	Q628	4822 130 60766	DTA114ΩS	
C905	4822 124 41284	10μF 50V	D413	4822 130 33305	1SS133T-77	Q629	4822 130 60766	DTA114ΩS	
C906	4822 124 41284	10μF 50V	D414	4822 130 33305	1SS133T-77	Q630	4822 209 73287	LB1630	
C907	4822 124 41284	10μF 50V	D415	4822 130 33305	1SS133T-77	Q701	4822 209 73064	NJM2068DD	
C908	5322 122 32311	470pF 10% 100V	D416	4822 130 33305	1SS133T-77	Q751	4822 209 31575	T9213P	
C909	5322 122 32311	470pF 10% 100V	D501	4822 130 80318	MTZJ6.8C	Q752	4822 209 83631	NJM4558D-D	
C910	4822 124 41287	47μF 16V	D502	4822 130 80318	MTZJ6.8C	Q753	4822 130 61723	DTC323TS	
C911	4822 124 41287	47μF 16V	D590	4822 130 32362	MA165	Q754	4822 130 61723	DTC323TS	
C912	4822 122 31202	33pF 2% 500V	D591	4822 130 32362	MA165	Q901	4822 209 83779	UPC1270H	
C913	4822 122 31202	33pF 2% 500V	D625	4822 130 33305	1SS133T-77	Q902	4822 209 83779	UPC1270H	
C914	5322 121 42386	100nF 5% 63V	D626	4822 130 80839	S5688G	Q903	4822 130 63411	2SD1408	
C915	5322 121 42386	100nF 5% 63V	D651	4822 130 82978	LTL-16kPE-P RD	Q904	4822 130 63411	2SD1408	
C916	5322 121 42386	100nF 5% 63V	D901	4822 130 33305	1SS133T-77	Q905	4822 130 63412	2SB1017	
C917	5322 121 42386	100nF 5% 63V	D902	4822 130 33305	1SS133T-77	Q906	4822 130 63412	2SB1017	
C918	4822 124 41284	10μF 50V	D903	4822 130 80322	MTZJ16A	Q907	4822 130 42951	2SA970GR	
C919	5322 122 32331	1nF 10% 100V	D904	4822 130 80322	MTZJ16A	Q908	4822 130 42949	2SA970	
C920	4822 124 41287	47μF 16V	D905	4822 130 33305	1SS133T-77	Q909	4822 130 60117	2SC3419Y	
C921	4822 124 41509	33μF 20% 35V	D906	4822 130 80318	MTZ6.8C	Q910	4822 130 60117	2SC3419Y	
C922	4822 126 11948	22pF 5% 50V	COILS			Q911	4822 209 73727	UPC1188H	
C923	4822 121 51304	10nF 10% 50V				Q912	4822 209 83631	NJM4558D-D	
C924	4822 121 51304	10nF 10% 50V	L101	4822 157 63084	MW ANT COIL 280μH	Q913	4822 130 41312	2SC2240BL	
C928	4822 124 41402	10μF 20% 50V	L102	4822 157 52716	COIL-MW OSC RD	Q914	4822 130 61723	DTC323TS	
DIODES			L103	4822 157 53589	COIL CHOKE 39mH	RESISTORS			
D101	4822 125 50416	SVC342-K	L104	4822 148 81095	COIL-AM IFT BLK	R101	4822 116 52233	10k 5% 0,5W	
D102	4822 130 33305	1SS133T-77	L105	4822 157 63904	COIL DETECTION	R102	4822 116 52234	100Ω 5% 0,5W	
D103	4822 130 33305	1SS133T-77	L106	4822 157 70021	COIL MPX	R103	4822 100 11351	PRESET 10k	
D251	4822 130 80837	HSS81TD	L107	4822 157 70021	COIL MPX	R104	4822 116 52239	120k 5% 0,5W	
D252	4822 130 80837	HSS81TD	L108	4822 157 71282	COIL ONLY/00S	R104	4822 116 52234	100k ONLY/00S	
D253	4822 130 33305	1SS133T-77	L251	4822 280 70354	RELAY VB24MBU	R105	4822 116 52175	100Ω 5% 0,5W	
D254	4822 130 33305	1SS133T-77	L252	4822 157 70022	COIL-SPEAKER CHOKE	R106	4822 050 21501	150Ω 1% 0,6W	
D295	4822 130 42848	PTH9M04BB222	L253	4822 157 70022	COIL-SPEAKER CHOKE	R107	4822 116 52256	2k2 5% 0,5W	
D296	4822 130 43564	PTH9 S16V330Ω	L590	4822 148 80281	COIL 100uH	R108	4822 116 52219	330Ω 5% 0,5W	
D320	4822 130 33133	D5FB204002L20	L901	4822 280 70354	RELAY VB24MBU	R109	4822 116 52219	330Ω 5% 0,5W	
D321	4822 130 31007	S4VB-20			R110	4822 116 52219	330Ω 5% 0,5W		
D322	4822 130 80839	S5688G			R111	4822 116 52233	10k 5% 0,5W		
D323	4822 130 80839	S5688G			R112	4822 050 21501	150Ω 1% 0,6W		

R113	4822 116 52269	3k3 5% 0,5W	R263	4822 100 11386	PRESET 1k	R342	4822 116 52233	10k 5% 0,5W	R444	4822 116 52233	10k 5% 0,5W
R114	4822 100 11352	PRESET 22k	R264	4822 100 11386	PRESET 1k	R351	4822 116 52271	33k 5% 0,5W	R445	4822 116 52233	10k 5% 0,5W
R115	4822 116 52256	2k2 5% 0,5W	R265	4822 116 52243	1k5 5% 0,5W	R352	4822 116 52271	33k 5% 0,5W	R446	4822 116 52233	10k 5% 0,5W
R116	4822 116 52284	47k 5% 0,5W	R266	4822 116 52243	1k5 5% 0,5W	R359	4822 116 52233	10k 5% 0,5W	R447	4822 116 52234	100Ω 5% 0,5W
R117	4822 116 52269	3k3 5% 0,5W	R267	4822 116 81154	2Ω2 5% 0,5W	R360	4822 116 52233	10k 5% 0,5W	R448	4822 116 52224	470Ω 5% 0,5W
R118	4822 116 52233	10k 5% 0,5W	R268	4822 116 81154	2Ω2 5% 0,5W	R361	4822 116 52234	100Ω 5% 0,5W	R449	4822 116 52233	10k 5% 0,5W
R119	4822 100 20681	PRESET 2k2	R269	4822 116 81154	2Ω2 5% 0,5W	R362	4822 116 52234	100Ω 5% 0,5W	R450	4822 116 52233	10k 5% 0,5W
R120	4822 116 52289	5k6 5% 0,5W	R270	4822 116 81154	2Ω2 5% 0,5W	R363	4822 116 52233	10k 5% 0,5W	R451	4822 116 52233	10k 5% 0,5W
R121	4822 116 52289	5k6 5% 0,5W	R271	4822 116 82049	2 X R18 3W	R364	4822 116 52233	10k 5% 0,5W	R452	4822 116 52233	10k 5% 0,5W
R122	4822 116 52284	47k 5% 0,5W	R272	4822 116 82049	2 X R18 3W	R365	4822 116 52269	3k3 5% 0,5W	R453	4822 116 52233	10k 5% 0,5W
R123	4822 116 52284	47k 5% 0,5W	R273	4822 116 52231	820Ω 5% 0,5W	R366	4822 116 52269	3k3 5% 0,5W	R455	4822 116 52284	47k 5% 0,5W
R126	4822 116 52283	4k7 5% 0,5W	R274	4822 116 52231	820Ω 5% 0,5W	R367	4822 116 52233	10k 5% 0,5W	R456	4822 116 52284	47k 5% 0,5W
R127	4822 116 52283	4k7 5% 0,5W	R275	4822 116 52271	33k 5% 0,5W	R368	4822 116 52234	100Ω 5% 0,5W	R457	4822 116 52284	47k 5% 0,5W
R128	4822 116 52233	10k 5% 0,5W	R276	4822 116 52271	33k 5% 0,5W	R369	4822 116 52233	10k 5% 0,5W	R458	4822 116 52284	47k 5% 0,5W
R129	4822 116 52233	10k 5% 0,5W	R277	4822 116 52257	22k 5% 0,5W	R370	4822 116 52233	10k 5% 0,5W	R459	4822 116 52251	18k 5% 0,5W
R130	4822 116 52256	2k2 5% 0,5W	R278	4822 116 52257	22k 5% 0,5W	R371	4822 116 52233	10k 5% 0,5W	R460	4822 116 52284	47k 5% 0,5W
R131	4822 116 52256	2k2 5% 0,5W	R279	4822 116 52233	10k 5% 0,5W	R372	4822 116 52234	100Ω 5% 0,5W	R461	4822 116 52284	47k 5% 0,5W
R132	4822 116 52283	4k7 5% 0,5W	R280	4822 117 10028	220Ω 5% 0,25W	R373	4822 116 52269	3k3 5% 0,5W	R462	4822 116 52284	47k 5% 0,5W
R133	4822 116 52283	4k7 5% 0,5W	R281	4822 117 10028	220Ω 5% 0,25W	R374	4822 116 52233	10k 5% 0,5W	R463	4822 116 52284	47k 5% 0,5W
R135	4822 116 52233	10k ONLY/00S	R282	4822 053 11109	10Ω 5% 2W	R375	4822 116 52269	3k3 5% 0,5W	R465	4822 116 52251	18k 5% 0,5W
R136	4822 116 52244	15k ONLY/00S	R283	4822 053 11109	10Ω 5% 2W	R376	4822 116 52234	100Ω 5% 0,5W	R466	4822 116 52211	150Ω 5% 0,5W
R137	4822 116 52234	100Ω 5% 0,5W	R284	4822 116 52284	47k 5% 0,5W	R377	4822 116 52244	15k 5% 0,5W	R467	4822 116 52206	120Ω 5% 0,5W
R150	4822 050 11002	1k 1% 0,4W	R285	4822 116 52284	47k 5% 0,5W	R378	4822 116 52244	15k 5% 0,5W	R468	4822 116 52211	150Ω 5% 0,5W
R151	4822 050 11002	1k 1% 0,4W	R286	4822 116 52296	6k8 5% 0,5W	R379	4822 116 52271	33k 5% 0,5W	R469	4822 116 52234	100Ω 5% 0,5W
R152	4822 116 52269	3k3 5% 0,5W	R287	4822 115 90166	10Ω 0,25W	R380	4822 116 52271	33k 5% 0,5W	R470	4822 116 52175	100Ω 5% 0,5W
R153	4822 116 52233	10k 5% 0,5W	R288	4822 115 90166	10Ω 0,25W	R381	4822 116 52234	100Ω 5% 0,5W	R501	4822 050 11002	1k 1% 0,4W
R154	4822 050 11002	1k 1% 0,4W	R289	4822 115 90166	10Ω 0,25W	R382	4822 116 52257	22k 5% 0,5W	R502	4822 050 11002	1k 1% 0,4W
R156	4822 050 11002	1k 1% 0,4W	R290	4822 115 90166	10Ω 0,25W	R383	4822 116 52257	22k 5% 0,5W	R503	4822 116 52238	12k 5%
R157	4822 116 52283	4k7 5% 0,5W	R291	4822 116 52284	47k 5% 0,5W	R384	4822 116 52257	22k 5% 0,5W	R504	4822 116 52238	12k 5%
R158	4822 116 52284	47k 5% 0,5W	R292	4822 116 52245	150k 5% 0,5W	R385	4822 116 52257	22k 5% 0,5W	R505	4822 116 52215	220Ω 5% 0,5W
R159	4822 116 52284	47k 5% 0,5W	R293	4822 053 11681	680Ω 5% 2W	R386	4822 116 52244	15k 5% 0,5W	R506	4822 116 52215	220Ω 5% 0,5W
R160	4822 116 52284	47k 5% 0,5W	R294	4822 053 11681	680Ω 5% 2W	R387	4822 116 52296	6k8 5% 0,5W	R507	4822 116 52283	4k7 5% 0,5W
R161	4822 116 52284	47k 5% 0,5W	R295	4822 050 21501	150Ω 1% 0,6W	R388	4822 116 52269	3k3 5% 0,5W	R508	4822 116 52283	4k7 5% 0,5W
R162	4822 116 52284	47k 5% 0,5W	R296	4822 050 21501	150Ω 1% 0,6W	R389	4822 116 52269	3k3 5% 0,5W	R509	4822 116 52224	470Ω 5% 0,5W
R163	4822 116 52269	3k3 5% 0,5W	R297	4822 116 52271	33k 5% 0,5W	R390	4822 116 52296	6k8 5% 0,5W	R510	4822 116 52224	470Ω 5% 0,5W
R164	4822 116 52284	47k 5% 0,5W	R298	4822 116 52175	100Ω 5% 0,5W	R391	4822 116 52243	1k5 5% 0,5W	R511	4822 116 52276	3k9 5% 0,5W
R165	4822 116 52284	47k 5% 0,5W	R300	4822 116 52175	100Ω 5% 0,5W	R392	4822 116 52257	22k 5% 0,5W	R512	4822 116 52276	3k9 5% 0,5W
R166	4822 052 10479	47Ω 5% 0,33W	R318	4822 116 52233	10k 5% 0,5W	R393	4822 116 52257	22k 5% 0,5W	R513	4822 116 52228	680Ω 5% 0,5W
R251	4822 116 52224	470Ω 5% 0,5W	R319	4822 115 90166	10Ω 0,25W	R394	4822 116 52257	22k 5% 0,5W	R514	4822 116 52228	680Ω 5% 0,5W
R252	4822 116 52224	470Ω 5% 0,5W	R320	4822 050 24701	470Ω 1% 0,6W	R395	4822 116 52234	100Ω 5% 0,5W	R515	4822 116 52256	2k2 5% 0,5W
R253	4822 116 52284	47k 5% 0,5W	R321	4822 116 52175	100Ω 5% 0,5W	R396	4822 116 52234	100Ω 5% 0,5W	R516	4822 116 52256	2k2 5% 0,5W
R254	4822 116 52284	47k 5% 0,5W	R322	4822 116 52175	100Ω 5% 0,5W	R397	4822 116 52233	10k 5% 0,5W	R517	4822 116 52215	220Ω 5% 0,5W
R255	4822 116 52284	47k 5% 0,5W	R323	4822 053 11151	150Ω 5% 2W	R398	4822 116 52233	10k 5% 0,5W	R518	4822 116 52215	220Ω 5% 0,5W
R256	4822 116 52284	47k 5% 0,5W	R326	4822 116 60313	10Ω 0,5W	R409	4822 116 52233	10k 5% 0,5W	R519	4822 101 30797	POTM ROT 10k X 2
R257	4822 116 52244	15k 5% 0,5W	R327	4822 113 80322	2M2 0,5W	R418	4822 116 52233	10k 5% 0,5W	R520	4822 101 30797	POTM ROT 10k X 2
R258	4822 116 52244	15k 5% 0,5W	R328	4822 116 60313	10Ω 0,5W	R427	4822 116 52233	10k 5% 0,5W	R521	4822 050 11002	1k 1% 0,4W
R259	4822 116 52249	1k8 5% 0,5W	R329	4822 116 52244	15k 5% 0,5W	R436	4822 116 52233	10k 5% 0,5W	R522	4822 050 11002	1k 1% 0,4W
R260	4822 116 52249	1k8 5% 0,5W	R330	4822 116 52296	6k8 5% 0,5W	R437	4822 116 52233	10k 5% 0,5W	R532	4822 101 30798	POTM ROT 100k X 2
R261	4822 116 52269	3k3 5% 0,5W	R331	4822 116 52284	47k 5% 0,5W	R438	4822 116 52233	10k 5% 0,5W	R533	4822 116 52271	33k 5% 0,5W
R262	4822 116 52269	3k3 5% 0,5W	R332	4822 116 52284	47k 5% 0,5W	R439	4822 116 52256	2k2 5% 0,5W	R534	4822 116 52271	33k 5% 0,5W
R333	4822 116 52176	10Ω 5% 0,5W	R333	4822 116 52176	10Ω 5% 0,5W	R440	4822 116 52233	10k 5% 0,5W	R535	4822 116 52228	680Ω 5% 0,5W
R334	4822 116 52233	10k 5% 0,5W	R334	4822 116 52233	10k 5% 0,5W	R441	4822 116 52233	10k 5% 0,5W	R536	4822 116 52228	680Ω 5% 0,5W
R340	4822 116 52233	10k 5% 0,5W	R340	4822 116 52233	10k 5% 0,5W	R442	4822 116 52233	10k 5% 0,5W	R537	4822 116 52271	33k 5% 0,5W
R341	4822 116 52233	10k 5% 0,5W	R341	4822 116 52233	10k 5% 0,5W	R443	4822 116 52233	10k 5% 0,5W	R538	4822 116 52271	33k 5% 0,5W

R539	4822 116 52228	680Ω	5%	0,5W
R540	4822 116 52228	680Ω	5%	0,5W
R541	4822 116 52271	33k	5%	0,5W
R542	4822 116 52271	33k	5%	0,5W
R543	4822 116 52228	680Ω	5%	0,5W
R544	4822 116 52228	680Ω	5%	0,5W
R545	4822 116 52224	470Ω	5%	0,5W
R546	4822 116 52224	470Ω	5%	0,5W
R547	4822 116 52233	10k	5%	0,5W
R548	4822 116 52233	10k	5%	0,5W
R549	4822 116 52175	100Ω	5%	0,5W
R550	4822 116 52175	100Ω	5%	0,5W
R551	4822 116 52258	220k	5%	0,5W
R552	4822 116 52258	220k	5%	0,5W
R553	4822 116 52258	220k	5%	0,5W
R554	4822 116 52258	220k	5%	0,5W
R555	4822 116 52258	220k	5%	0,5W
R556	4822 116 52258	220k	5%	0,5W
R557	4822 116 52258	220k	5%	0,5W
R558	4822 116 52258	220k	5%	0,5W
R559	4822 116 52258	220k	5%	0,5W
R560	4822 116 52258	220k	5%	0,5W
R561	4822 116 52258	220k	5%	0,5W
R562	4822 116 52258	220k	5%	0,5W
R563	4822 116 52258	220k	5%	0,5W
R564	4822 116 52258	220k	5%	0,5W
R565	4822 116 52234	100Ω	5%	0,5W
R566	4822 116 52175	100Ω	5%	0,5W
R567	4822 116 52175	100Ω	5%	0,5W
R568	4822 116 52234	100Ω	5%	0,5W
R569	4822 116 52284	47k	5%	0,5W
R570	4822 116 52284	47k	5%	0,5W
R571	4822 116 52195	47Ω	5%	0,5W
R572	4822 116 52284	47k	5%	0,5W
R573	4822 116 52195	47Ω	5%	0,5W
R574	4822 116 52284	47k	5%	0,5W
R575	4822 116 52195	47Ω	5%	0,5W
R576	4822 116 52233	10k	5%	0,5W
R577	4822 116 52244	15k	5%	0,5W
R578	4822 116 52224	470Ω	5%	0,5W
R579	4822 116 52199	68Ω	5%	0,5W
R580	4822 050 11002	1k	1%	0,4W
R581	4822 116 52233	10k	5%	0,5W
R582	4822 116 52244	15k	5%	0,5W
R583	4822 116 52224	470Ω	5%	0,5W
R584	4822 116 52199	68Ω	5%	0,5W
R585	4822 050 11002	1k	1%	0,4W
R586	4822 116 52234	100Ω	5%	0,5W
R587	4822 116 52226	560Ω	5%	0,5W
R588	4822 116 52231	820Ω	5%	0,5W
R590	4822 116 52202	82Ω	5%	0,5W
R591	4822 116 52175	100Ω	5%	0,5W
R592	4822 116 52202	82Ω	5%	0,5W
R593	4822 116 52175	100Ω	5%	0,5W

R594	4822 116 83863	1k	5%	0,5W
R595	4822 116 52269	3k3	5%	0,5W
R596	4822 116 83863	1k	5%	0,5W
R597	4822 116 52269	3k3	5%	0,5W
R598	4822 116 52233	10k	5%	0,5W
R599	4822 116 52233	10k	5%	0,5W
R601	4822 116 52234	100Ω	5%	0,5W
R602	4822 116 52234	100Ω	5%	0,5W
R603	4822 050 11002	1k	1%	0,4W
R603	4822 116 52256	2k2	ONLY/00S	
R604	4822 050 11002	1k	1%	0,4W
R604	4822 116 52256	2k2	ONLY/00S	
R605	4822 116 52224	470Ω	5%	0,5W
R606	4822 116 52224	470Ω	5%	0,5W
R607	4822 116 52234	100Ω	5%	0,5W
R608	4822 116 52234	100Ω	5%	0,5W
R609	4822 116 52272	330k	5%	0,5W
R610	4822 116 52272	330k	5%	0,5W
R611	4822 116 52257	22k	5%	0,5W
R612	4822 116 52257	22k	5%	0,5W
R613	4822 116 52215	220Ω	5%	0,5W
R614	4822 116 52215	220Ω	5%	0,5W
R615	4822 116 52284	47k	5%	0,5W
R616	4822 116 52284	47k	5%	0,5W
R617	4822 050 21001	100Ω	1%	0,6W
R618	4822 050 21001	100Ω	1%	0,6W
R619	4822 116 52175	100Ω	5%	0,5W
R620	4822 116 52175	100Ω	5%	0,5W
R621	4822 116 52258	220k	5%	0,5W
R622	4822 116 52258	220k	5%	0,5W
R625	4822 116 52257	22k	5%	0,5W
R626	4822 116 52257	22k	5%	0,5W
R627	4822 116 52244	15k	5%	0,5W
R628	4822 116 52284	47k	5%	0,5W
R629	4822 116 52244	15k	5%	0,5W
R630	4822 116 52244	15k	5%	0,5W
R631	4822 116 52284	47k	5%	0,5W
R632	4822 116 52244	15k	5%	0,5W
R633	4822 050 21006	10M	1%	0,6W
R634	4822 116 52234	100Ω	5%	0,5W
R635	4822 116 52234	100Ω	5%	0,5W
R636	4822 116 52244	15k	5%	0,5W
R637	4822 116 52244	15k	5%	0,5W
R639	4822 116 52296	6k8	5%	0,5W
R640	4822 116 52303	8k2	5%	0,5W
R641	4822 116 52233	10k	5%	0,5W
R642	4822 116 52289	5k6	5%	0,5W
R643	4822 116 52272	330k	5%	0,5W
R644	4822 116 52289	5k6	5%	0,5W
R645	4822 116 52284	47k	5%	0,5W
R646	4822 116 52234	100Ω	5%	0,5W
R647	4822 116 52289	5k6	5%	0,5W
R648	4822 116 52244	15k	5%	0,5W
R649	4822 116 52235	1M	5%	0,5W

R650	4822 116 52234	100Ω	5%	0,5W	R757	4822 116 52269	3k3	5%	0,5W
R651	4822 116 52303	8k2	5%	0,5W	R758	4822 116 52233	10k	5%	0,5W
R652	4822 116 52303	8k2	5%	0,5W	R759	4822 116 52269	3k3	5%	0,5W
R653	4822 116 52303	8k2	5%	0,5W	R760	4822 116 52233	10k	5%	0,5W
R654	4822 116 52303	8k2	5%	0,5W	R761	4822 116 52283	4k7	5%	0,5W
R655	4822 116 52233	10k	5%	0,5W	R762	4822 116 52283	4k7	5%	0,5W
R656	4822 116 52233	10k	5%	0,5W	R763	4822 116 52234	100Ω	5%	0,5W
R657	4822 116 52233	10k	5%	0,5W	R764	4822 116 52256	2k2	5%	0,5W
R658	4822 116 52233	10k	5%	0,5W	R765	4822 116 52283	4k7	5%	0,5W
R659	4822 116 52233	10k	5%	0,5W	R901	4822 050 11002	1k	1%	0,4W
R660	4822 116 52233	10k	5%	0,5W	R902	4822 116 52283	4k7	5%	0,5W
R662	4822 101 30799	POTM ROT 100k X 4			R903	4822 116 52283	4k7	5%	0,5W
R663	4822 116 52211	150Ω	5%	0,5W	R904	4822 116 52283	4k7	5%	0,5W
R664	4822 050 11002	1k	1%	0,4W	R905	4822 116 52234	100Ω	5%	0,5W
R665	4822 050 11002	1k	1%	0,4W	R906	4822 116 52228	680Ω	5%	0,5W
R666	4822 116 52233	10k	5%	0,5W	R907	4822 116 52228	680Ω	5%	0,5W
R667	4822 050 21001	100Ω	1%	0,6W	R908	4822 116 52296	6k8	5%	0,5W
R668	4822 050 11002	1k	1%	0,4W	R909	4822 116 52296	6k8	5%	0,5W
R669	4822 116 52234	100Ω	5%	0,5W	R910	4822 116 52271	33k	5%	0,5W
R670	4822 116 52234	100Ω	5%	0,5W	R911	4822 116 52271	33k	5%	0,5W
R671	4822 116 52176	10Ω	5%	0,5W	R912	4822 116 52226	560Ω	5%	0,5W
R673	4822 116 52269	3k3	5%	0,5W	R913	4822 116 52226	560Ω	5%	0,5W
R674	4822 116 52269	3k3	5%	0,5W	R914	4822 116 52271	33k	5%	0,5W
R701	4822 116 52233	10k	5%		R915	4822 116 52271	33k	5%	0,5W
R702	4822 116 52233	10k	5%		R916	4822 116 52269	3k3	5%	0,5W
R703	4822 116 52238	12k	5%		R917	4822 116 52269	3k3	5%	0,5W
R704	4822 116 52238	12k	5%		R918	4822 116 52256	2k2	5%	0,5W
R705	4822 116 52207	1k2	5%	0,5W	R919	4822 116 52256	2k2	5%	0,5W
R706	4822 116 52207	1k2	5%	0,5W	R920	4822 116 81753	4Ω7	5%	0,5W
R707	4822 116 52233	10k	5%	0,5W	R921	4822 116 81753	4Ω7	5%	0,5W
R708	4822 116 52233	10k	5%	0,5W	R922	4822 116 81753	4Ω7	5%	0,5W
R709	4822 116 52233	10k	5%	0,5W	R923	4822 116 81753	4Ω7	5%	0,5W
R710	4822 116 52233	10k	5%	0,5W	R924	4822 116 82049	2 X R18 3W		
R711	4822 116 52296	6k8	5%	0,5W	R925	4822 116 82049	2 X R18 3W		
R712	4822 116 52296	6k8	5%	0,5W	R926	4822 116 52284	47k	5%	0,5W
R713	4822 116 52233	10k	5%	0,5W	R927	4822 116 52284	47k	5%	0,5W
R714	4822 116 52233	10k	5%	0,5W	R928	4822 111 31012	10Ω	5%	0,25W
R715	4822 116 52235	1M	5%	0,5W	R929	4822 111 31012	10Ω	5%	0,25W
R716	4822 116 52235	1M	5%	0,5W	R930	4822 116 52226	560Ω	5%	0,5W
R717	4822 116 52258	220k	5%	0,5W	R931	4822 116 52271	33k	5%	0,5W
R718	4822 116 52258	220k	5%	0,5W	R932	4822 116 52284	47k	5%	0,5W
R721	4822 116 52235	1M	5%	0,5W	R933	4822 116 52233	10k	5%	0,5W
R722	4822 116 52235	1M	5%	0,5W	R934	4822 116 52284	47k	5%	0,5W
R723	4822 116 52235	1M	5%	0,5W	R935	4822 116 52257	22k	5%	0,5W
R724	4822 116 52235	1M	5%	0,5W	R936	4822 116 52271	33k	5%	0,5W
R725	4822 116 52235	1M	5%	0,5W	R937	4822 116 52243	1k5	5%	0,5W
R726	4822 116 52235	1M	5%	0,5W	R938	4822 116 52297	68k	5%	0,5W
R727	4822 116 83863	1k	5%	0,5W	R939	4822 116 52234	100Ω	5%	0,5W
R728	4822 116 83863	1k	5%	0,5W	R940	4822 116 52284	47k	5%	0,5W
R751	4822 116 52258	220k	5%	0,5W	R941	4822 052 10109	10Ω	5%	0,33W
R752	4822 116 52258	220k	5%	0,5W	R943	4822 116 52228	680Ω	5%	0,5W
R753	4822 116 52258	220k	5%	0,5W	R944	4822 116 52271	33k	5%	0,5W
R754	4822 116 52258	220k	5%	0,5W	R945	4822 116 52257	22k	5%	0,5W
R756	4822 116 52258	220k	5%	0,5W	R946	4822 116 52284	47k	5%	0,5W

R947	4822 050 11002	1k	1%	0,4W	RESONATORS		
R948	4822 050 11002	1k	1%	0,4W			
R949	4822 116 83863	1k	5%	0,5W			
SWITCHES					F101	4822 242 81262	CERAM TER 450kHz
S310	4822 276 13289	SWITCH-PUSH			F102	4822 242 70911	CERAM TER 10.7MHz
S320	4822 276 13285	SW PUSH 1P 5/80A			F102	4822 242 70665	CST 10.7MHz ONLY/00S
S321	4822 276 13539	SWITCH ONLY/00S			F103	4822 242 70665	CERAM TER 10.7MHz
S401	4822 276 13288	TACT SWITCH			X101	4822 242 81248	RESONATOR 19kHz
S402	4822 276 13288	TACT SWITCH			X150	4822 242 72333	X'TAL 7.2MHz
S403	4822 276 13288	TACT SWITCH			X401	4822 242 72066	RESONATOR 8.00MHz
S404	4822 276 13288	TACT SWITCH			X625	4822 242 81271	RESONATOR
S405	4822 276 13288	TACT SWITCH					
S406	4822 276 13288	TACT SWITCH					
S407	4822 276 13288	TACT SWITCH					
S408	4822 276 13288	TACT SWITCH					
S409	4822 276 13288	TACT SWITCH					
S410	4822 276 13288	TACT SWITCH					
S411	4822 276 13288	TACT SWITCH					
S412	4822 276 13288	TACT SWITCH					
S413	4822 276 13288	TACT SWITCH					
S414	4822 276 13288	TACT SWITCH					
S415	4822 276 13288	TACT SWITCH					
S416	4822 276 13288	TACT SWITCH					
S417	4822 276 13288	TACT SWITCH					
S418	4822 276 13213	TACT SWITCH					
S419	4822 276 13213	TACT SWITCH					
S420	4822 276 13213	TACT SWITCH					
S421	4822 276 13213	TACT SWITCH					
S422	4822 276 13213	TACT SWITCH					
S423	4822 276 13288	TACT SWITCH					
S424	4822 276 13288	TACT SWITCH					
S425	4822 276 13288	TACT SWITCH					
S426	4822 276 13288	TACT SWITCH					
S427	4822 276 13288	TACT SWITCH					
S428	4822 276 13288	TACT SWITCH					
S429	4822 276 13288	TACT SWITCH					
S430	4822 276 13288	TACT SWITCH					
S431	4822 276 13288	TACT SWITCH					
S432	4822 276 13213	TACT SWITCH					
S433	4822 276 13213	TACT SWITCH					
S434	4822 276 13213	TACT SWITCH					
S435	4822 276 13213	TACT SWITCH					
S436	4822 276 13213	TACT SWITCH					
S437	4822 273 10249	SOURCE SWITCH, ROT					
S701	4822 273 10251	SWITCH-SLICE					