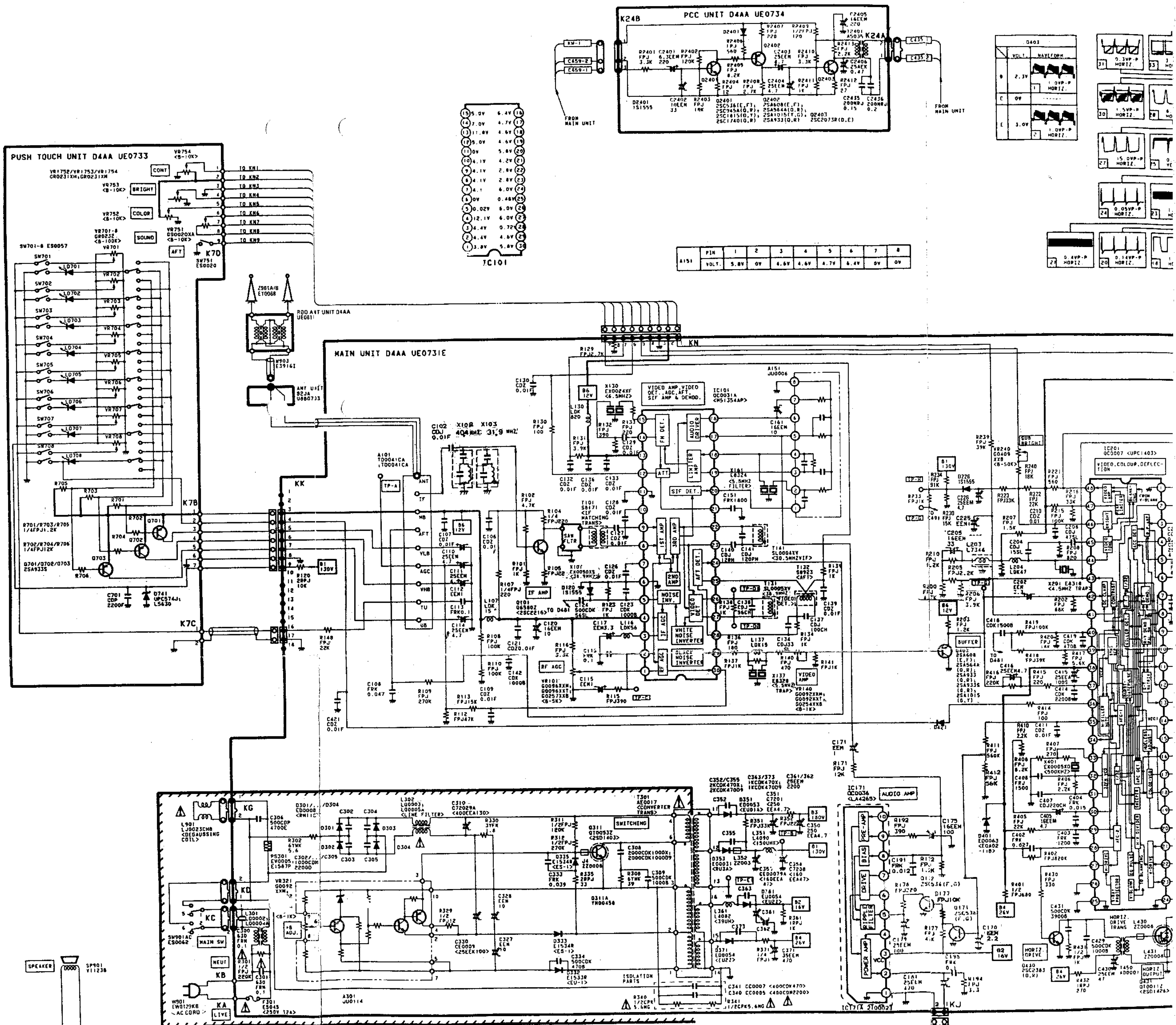
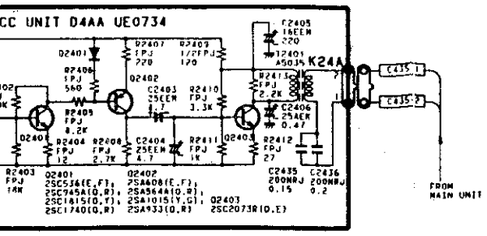


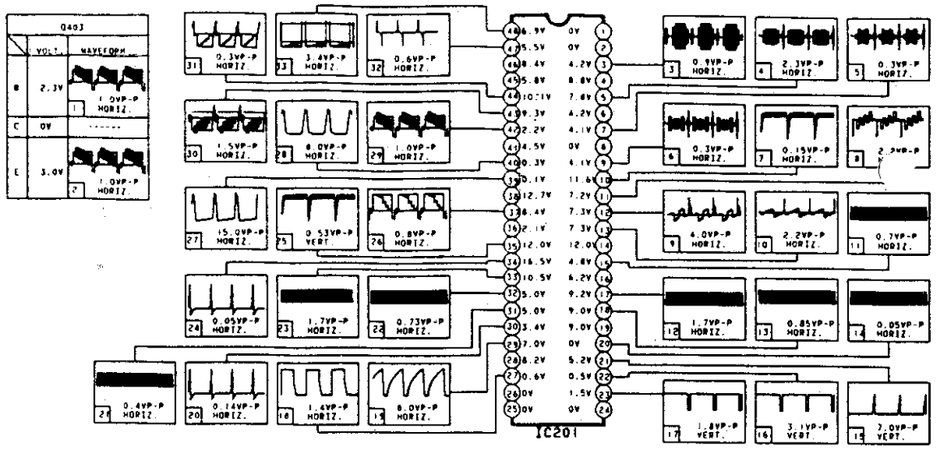
A151	PIN	1	2	3	4	5	6	7	8
	VOLT.	5.8V	0V	4.6V	4.6V	4.7V	6.4V	0V	0V

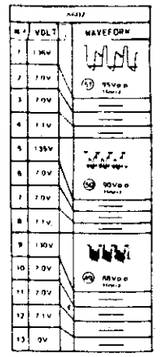
A601	PIN	1	2	3	4	5	6	7
	VOLT	112V	112V	112V	114V	121V	120V	155V

CC UNIT D4AA UE0734

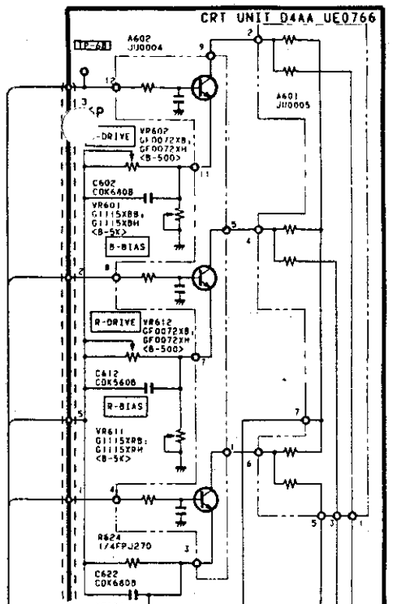


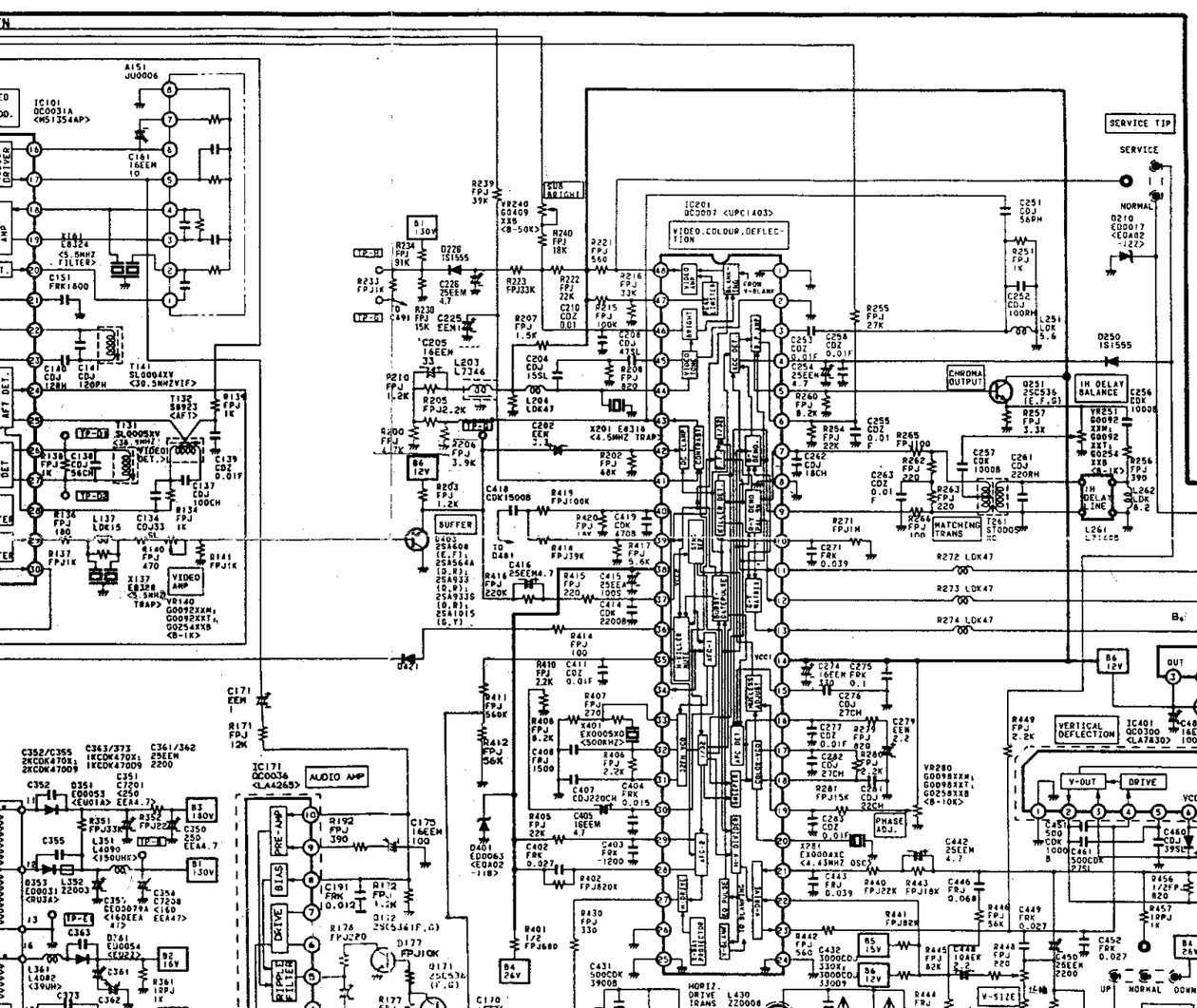
	PIN	1	2	3	4	5	6	7	8
	VOLT.	5.8V	0V	4.6V	4.6V	4.7V	6.4V	0V	0V

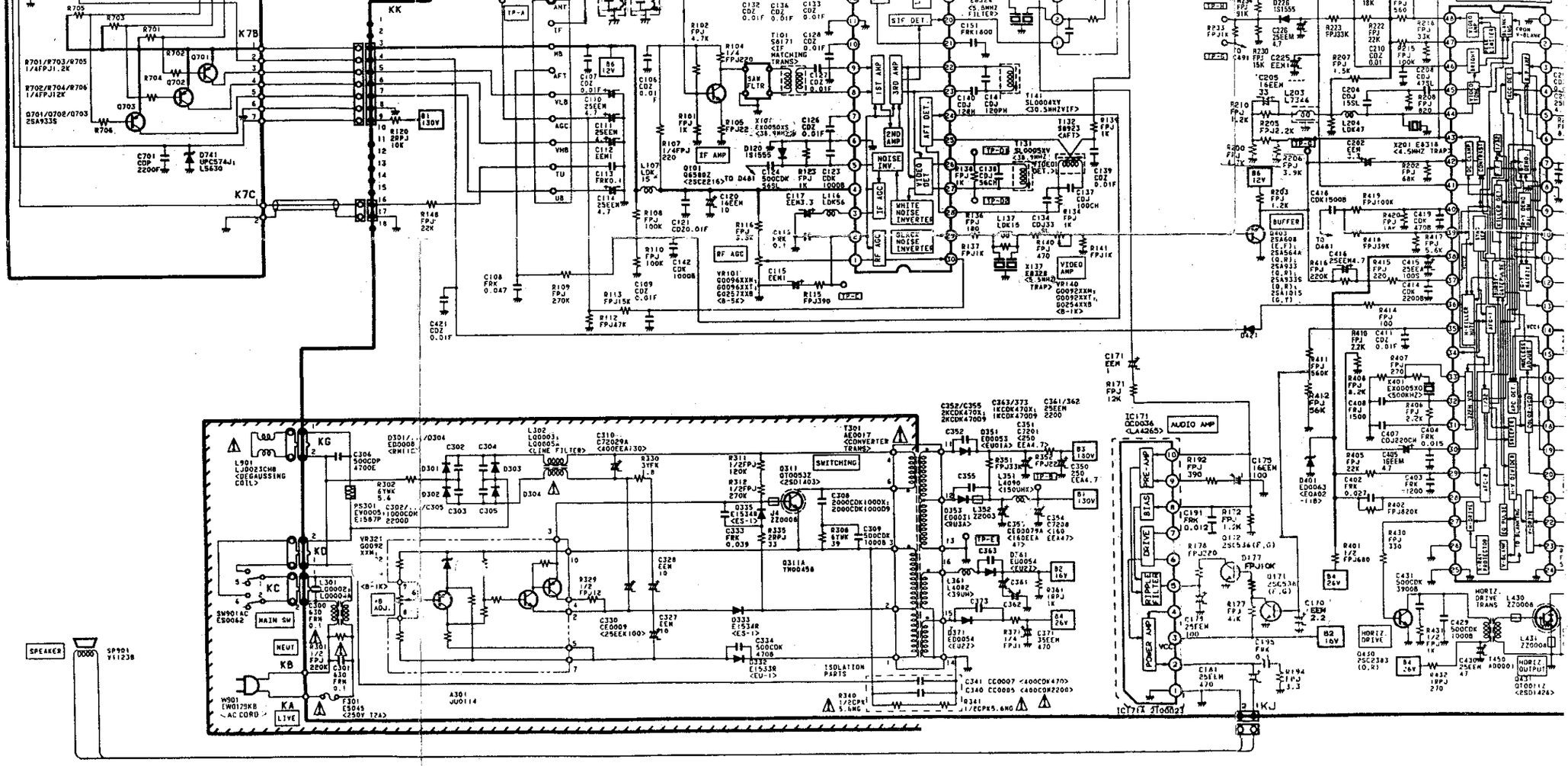




CRT UNIT D4AA UE0766







SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE ⟨⟩ IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THIS AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

A301

PIN	1	2	3	4	5	6	7	8	9	10
VOLT.	----	-5.2V	-2.5V	-4.4V	-26.1V	-8.2V	-26.1V	-9.4V	-7.8V	0V
WAVEFORM		44 2.4VP-P HORIZ.		45 7.0VP-P HORIZ.		46 6.0VP-P HORIZ.				

0311

	VOLT.	WAVEFORM
B	-2.5V	47 7.0VP-P HORIZ.
C	—	48 420VP-P HORIZ.
E	0V	------

IC171

PIN	1	2	3	4	5	6	7	8	9	10
VOLT.	0V	6.0V	11.5V	0V	11.5V	6.4V	0.7V	0V	0.6V	0V

0430

	VOLT.	WAVEFORM
B	0.34V	0.75VP-P 40 HORIZ.
C	14.5V	41 40VP-P HORIZ.
E	0V	------

CONDOR

COLOUR TELEVISION

83P CHASSIS SERIES

PAL-B CA 118

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A MARK ⚠ IN THIS CIRCUIT DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE PARTS LIST OF SERVICE MANUAL BE USED FOR COMPONENTS REPLACEMENT POINTED OUT BY THE MARK.

CIRCUIT DIAGRAM NOTES:

1. ALL RESISTANCE VALUES ARE IN OHMS; K=1,000; M=1,000,000.
2. ALL RESISTANCE RATED WATTAGES ARE 1/6W UNLESS OTHERWISE NOTED.
3. EXCEPTING ELECTROLYTIC CAPACITORS, ALL CAPACITANCE VALUES OF LESS THAN 1 ARE EXPRESSED IN UF, AND MORE THAN 1 ARE IN PF. ELECTROLYTIC CAPACITANCE VALUES ARE IN MF.
4. ALL CAPACITANCE RATED VOLTAGES ARE 50V UNLESS OTHERWISE NOTED.
5. ALL INDUCTANCE VALUES ARE IN UH.
6. VOLTAGE READINGS TAKEN WITH A "TESTER" ARE FROM POINT INDICATED TO CHASSIS GROUND. VOLTAGE READINGS TAKEN BY USING A COLOUR BAR SIGNAL ARE WITH ALL CONTROLS AT NORMAL AND AFC SWITCH IN "OFF" POSITION . SOME VOLTAGES MAY VARY WITH SIGNAL STRENGTH.
7. WAVEFORMS WERE TAKEN WITH COLOUR BAR SIGNAL AND CONTROLS ADJUSTED FOR NORMAL PICTURE. WAVEFORMS WERE TAKEN BY USING A WIDE BAND OSCILLOSCOPE AND A LOW CAPACITY PROBE.
8. THIS CIRCUIT DIAGRAM COVERS A BASIC OR REPRESENTATIVE CHASSIS ONLY. THERE MAY BE SOME COMPONENTS OR PARTIAL CIRCUIT DIFFERANCES BETWEEN THE ACTUAL CHASSIS AND THE CIRCUIT DIAGRAM.
9. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM:

* CAPACITANCE (EXAMPLE)

/000 C C H 2200 B

- CHARACTERISTIC
- CAPACITANCE VALUE (2200PF)
- ALLOWABLE ERROR (+-20%)
- TERMINAL CONSTRUCTION
- KIND (CERAMIC)
- RATED VOLTAGE (1000V)

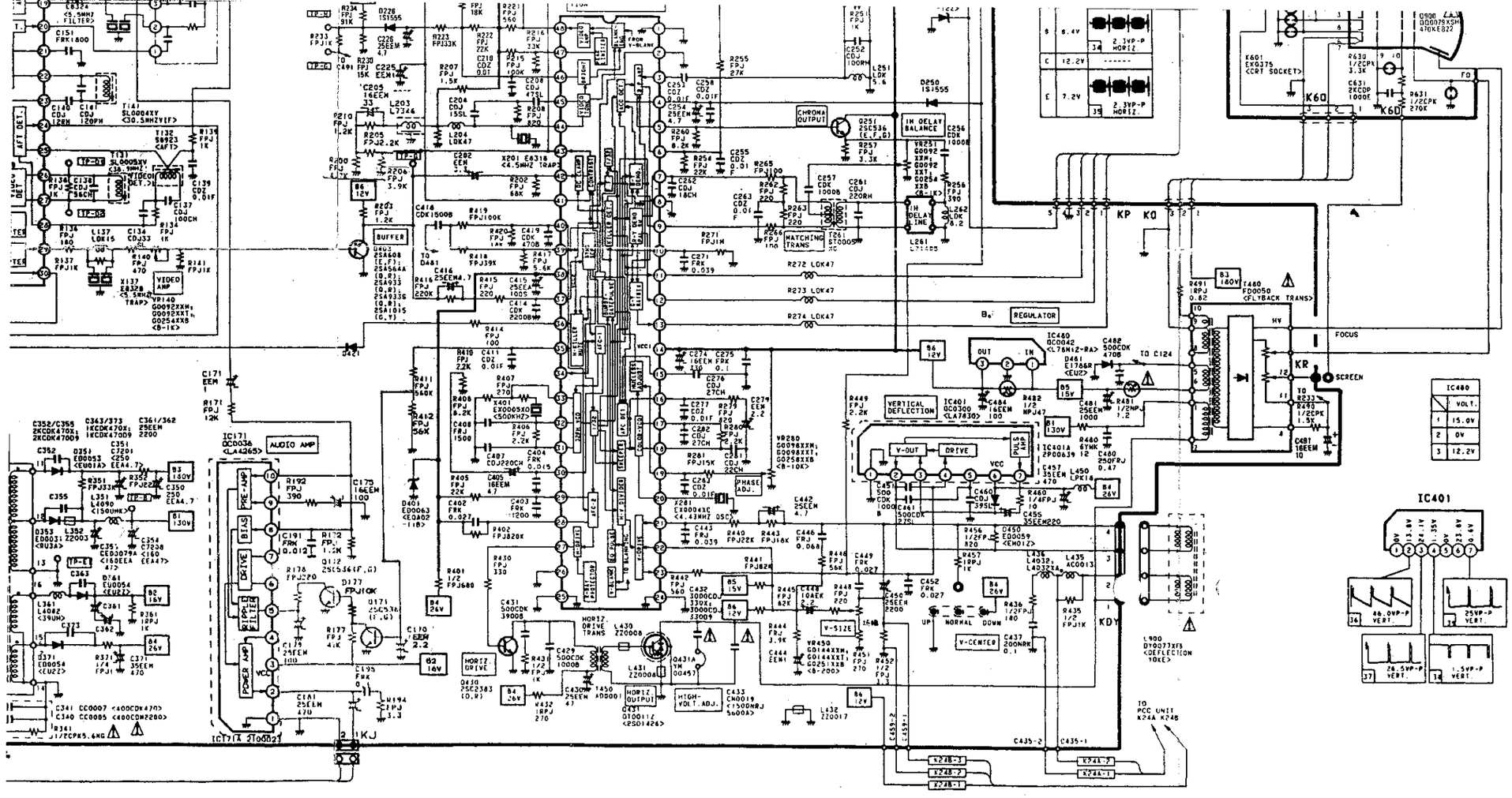
*KIND --- C ... CERAMIC, E ... ELECTROLYTIC, F ... MYLAR FILM, H ... POLYPROPYLENE

* RESISTANCE (EXAMPLE)

1/2 M P J 1.2

- RESISTANCE VALUE (1.2 OHM)
- ALLOWABLE ERROR (+-5%)
- TERMINAL CONSTRUCTION
- KIND (METALIZED CARBON)
- RATED WATTAGE (1/2W)

*KIND --- F ... CARBON, H ... METALIZED CA, R ... OXIDE METAL, T ... WIRE WOUND, C ... SOLID



IC171	PIN	1	2	3	4	5	6	7	8	9	10
	VOLT.	0V	6.0V	11.5V	0V	11.5V	6.0V	0.7V	0V	0.6V	0V

Q430

	VOLT.	WAVEFORM
B	0.34V	0.75VP-P HORIZ. 42
C	14.5V	40VP-P HORIZ. 41
E	0V	------

Q431

	VOLT.	WAVEFORM
B	0.03V	11.5VP-P HORIZ. 42
C	108V	150VP-P HORIZ. 43
E	0V	------

IC480	VOLT.
1	15.0V
2	0V
3	12.2V

IC401

1. OHMS, K=1,000, M=1,000,000.
2. ARE 1/4W UNLESS OTHERWISE NOTED.
3. TORS, ALL CAPACITANCE VALUES OF LESS THAN ORE THAN 1 ARE IN PF.
4. UES ARE IN MF.
5. ES ARE 50V UNLESS OTHERWISE NOTED.
6. UH.
7. A "TESTER" ARE FROM POINT INDICATED TO INGS TAKEN BY USING A COLOUR BAR SIGNAL NAL AND AFC SWITCH IN "OFF" POSITION .
8. SIGNAL STRENGTH.
9. LOUR BAR SIGNAL AND CONTROLS ADJUSTED S WERE TAKEN BY USING A WIDE BAND OSCILLO-PE.
10. A BASIC OR REPRESENTATIVE CHASSIS ONLY. OR PARTIAL CIRCUIT DIFFERANCES BETWEEN IRCUIT DIAGRAM.

9. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM:

* CAPACITANCE (EXAMPLE)

F000 C C M Z200 D

- CHARACTERISTIC
- CAPACITANCE VALUE (F2200PF)
- ALLOWABLE ERROR (+-20%)
- TERMINAL CONSTRUCTION
- KIND (CERAMIC)
- RATED VOLTAGE (1000V)

*KIND --- C ... CERAMIC, E ... ELECTROLYTIC, F ... MYLAR FILM, M ... POLYPROPYLENE

*ALLOWABLE ERROR --- G ... +-2%, J ... +-5%, K ... +-10%, M ... +-20%, Z ... +80% -20%, P ... +100% -0%

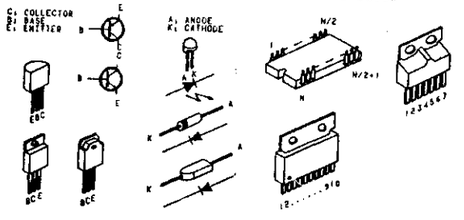
* RESISTANCE (EXAMPLE)

1/2 M P J 1.2

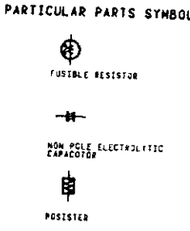
- RESISTANCE VALUE (1.2 OHM)
- ALLOWABLE ERROR (+-5%)
- TERMINAL CONSTRUCTION
- KIND (METALIZED CARBON)
- RATED WATTAGE (1/2W)

*KIND --- F ... CARBON, M ... METALIZED CARBON, P ... OXIDE METALIZED, Y ... WIRE WOUND, C ... SOLID

TRANSISTOR, DIODE & INTEGRATED CIRCUIT TERMINAL GUIDE



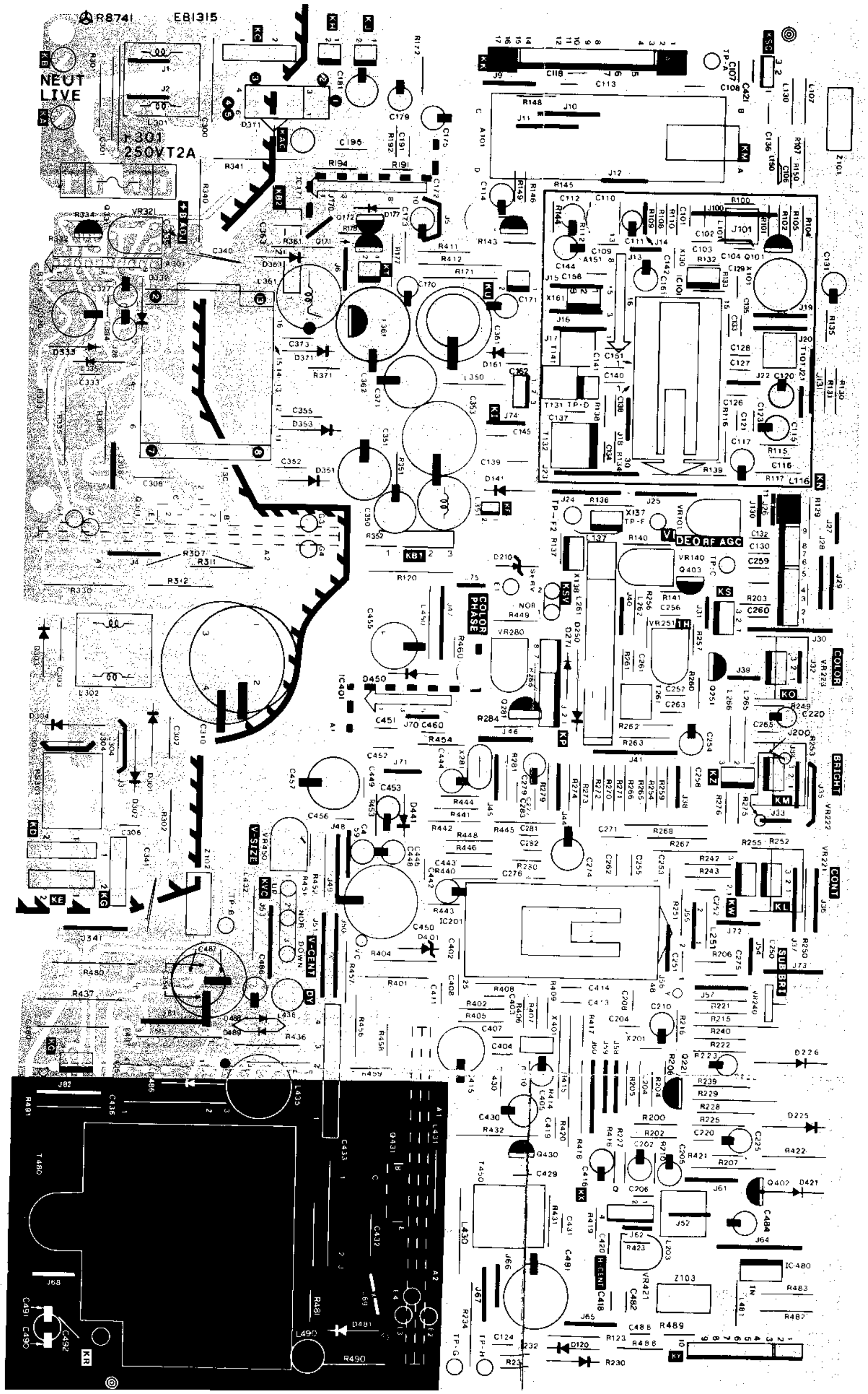
PARTICULAR PARTS SYMBOL



PRINTED CIRCUIT BOARD DIAGRAMS

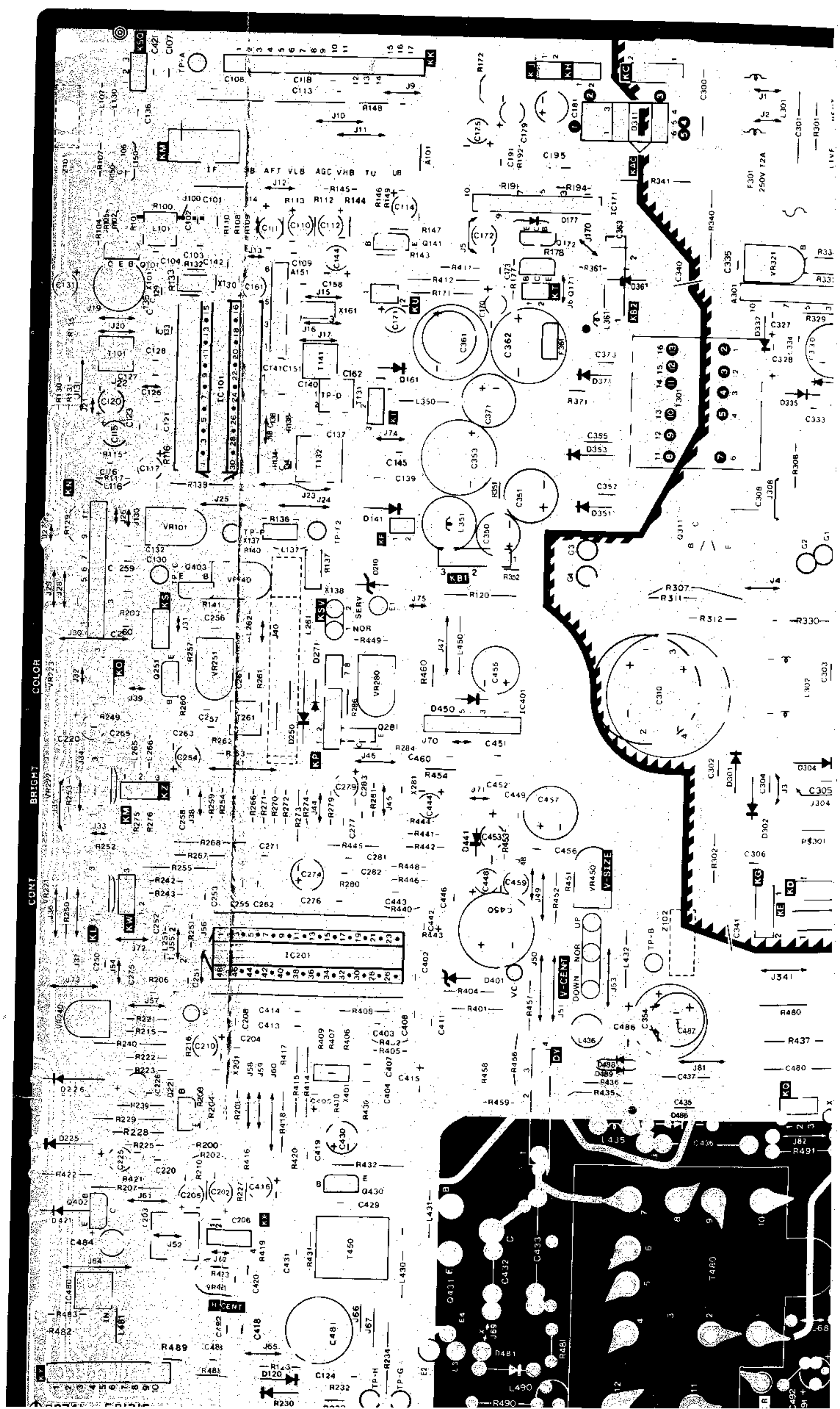
MAIN BOARD

COMPONENT SIDE



COMPONENT LOCATION DIAGRAM										
Pin		IC Q D	C			R			L T X	VR PS
KC KH KJ KB	KK TP-A			180 176 181	421 107 113 108	301	148		L103 L107	
KA	KM	D311	195 300 301	193 175 194 191	136 106	194 341	192 101 145	107	L301	
KT	KU	IC171 D177 Q331 Q141 Q401 Q101 D363 IC101 D332	177 363 340 327	172 114 112 178 173 109 114 143 158 171 362	110 101 102 111 103 131 104 142 161 135	340 330 411 332 361 412 329	193 149 146 147 112 177 143 144 413 171	113 109 108 110 100 101 102 105 104	L101 X101 L361 X161	VR321
		Q161 D371 D333 D335	330 373 333	361 141 162 140 371	133 128 151 129 120 126		161	135 131 130	T101 T141 L350	
	TP-D KI	D353	372	137 355 353 143	138 123 121 115 117 116 134	333 308 335	142 352 139	138 116 134 115	T131 T132	
	KN	D351 Q111	352 308	139 351					L116 T301	
G1 G3	TP-F				132 130		137 351 140	136 129 141	L357 L137 X137	VR101
G2 G4	TP-C E1 KSV KS	Q403		455	256	307 330	120 449	256 203	L262 L261 L450	VR140 VR280 VR251
	KO	D303 IC401 D450 Q251 Q281 D304	303	451	261 257 265		286 285 284	261 260	L265 L266 L302 T261	VR223
KC	KP KZ KM	D250 D301 D302 D441	310 302 304 305 458 341 442	452 444 451 279 277 453 281 282 446 449 448 276 459	254 258 271 262 443 255 274 253 252	441 302 453 451	454 274 279 444 280 445 442 446 448 280 242 243 452 443	253 273 272 270 271 266 265 254 259 268 267 255 252 251	X281	PS301 VR252 VR222 VR450 VR221
KE KG	KW KL TP-B	IC201 D401		456 402	275 251		404 457	250 206	L432 L251	VR240
KVC	Y		354 486 437 480	408 411 403 404 407	414 413 210 208 204	480 402 405 436	401 408 407 406 477 456 458	409 221 215 240 216 222 229	L436 X201 X401	
KQ		Q221 D226 D486 D225 Q430 Q431 Q402	455 436	415 405 419 430 433 429	226 220 225 205 416 202	435 430 491 420 418	410 459 414 415 432 416 227 202 421	223 228 205 208 224 239 226 225 210 422 207	L204 L205 L435 L431 T480 T450 L430	
	KX	IC480		431 432	484 420		431	419 483	L203	VR421
E2 E3 KR	Z TP-G TP-H	D481 D120	490	418 124 482	485 481		481 234 232 490 233	481 123 230		

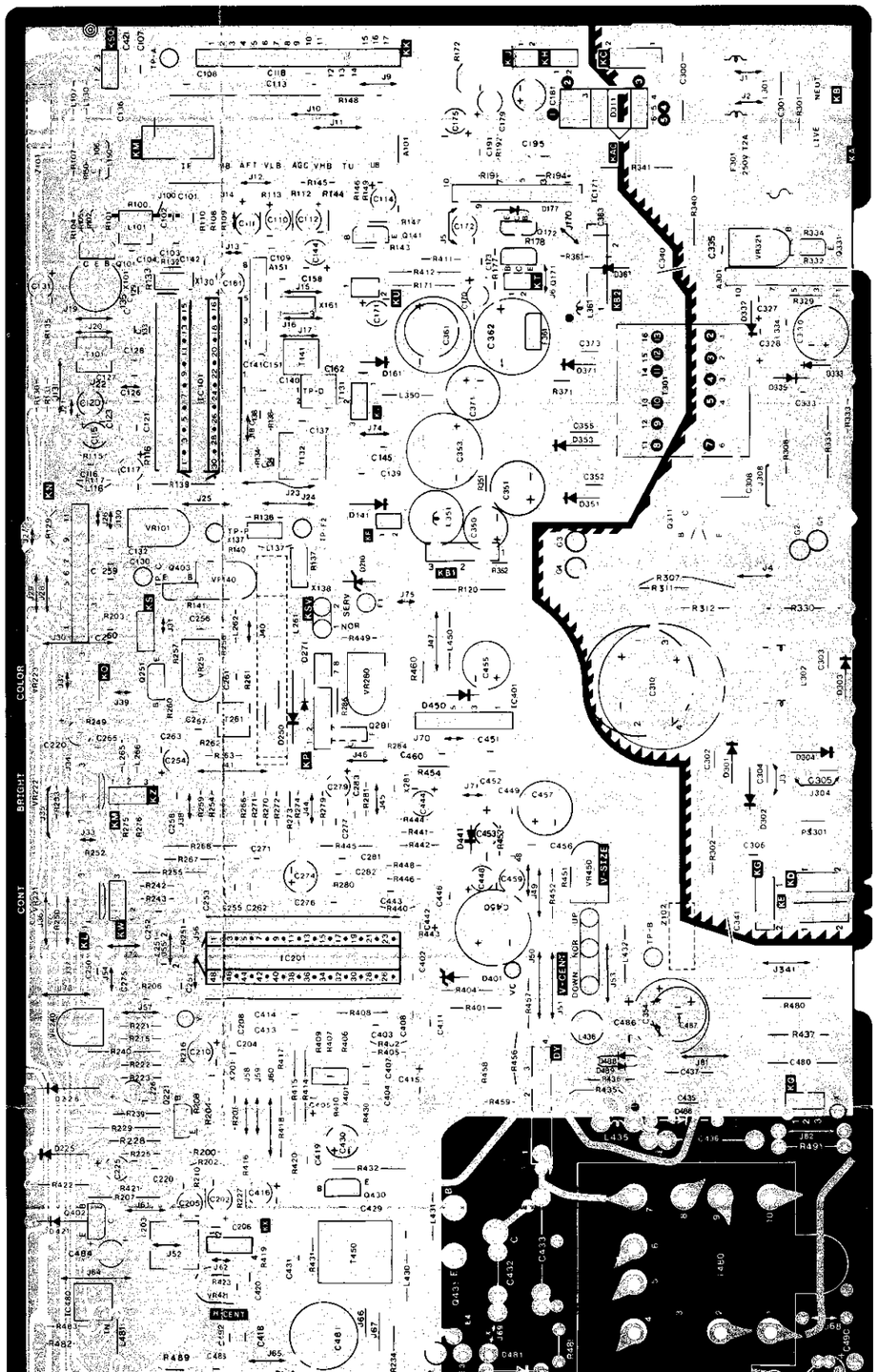
CIRCUIT SIDE



N DIAGRAM

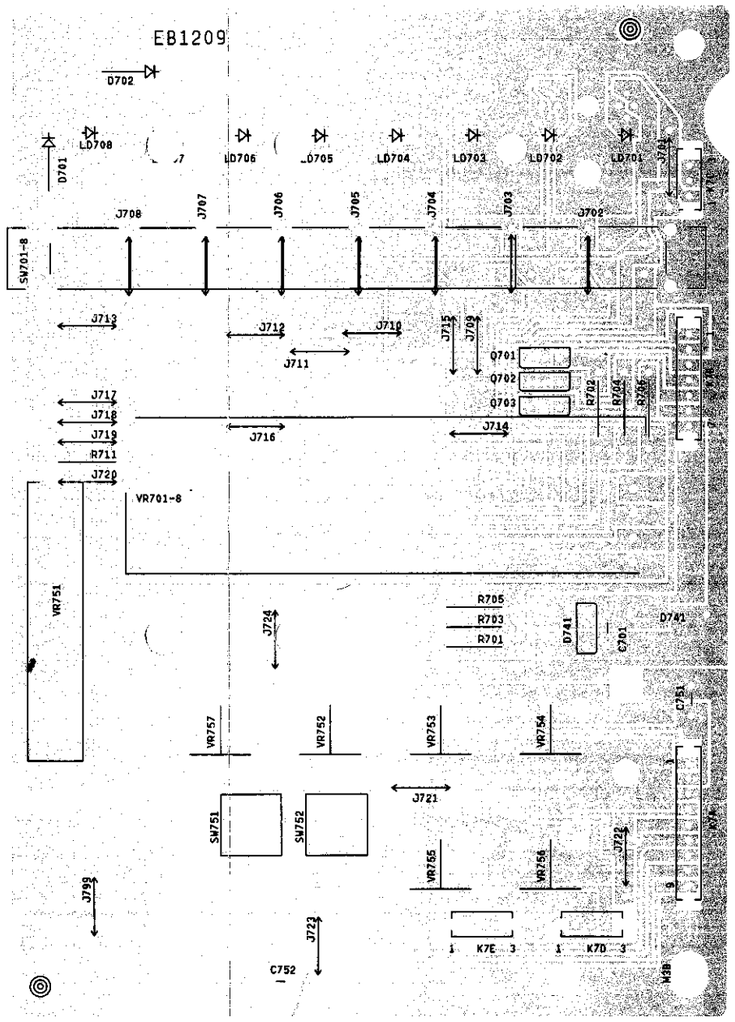
R	L T X	VR PS
	L103 L107	
107	L301	
113 109 108 110 100 101 102 105 104	L101	VR321
	X101 L351 X161	
135	T101 T141	
131 130	L350	
138 116	T131	
134 115	T132	
	L116 T301	
136 129 141	L357 L137 X137	VR101
		VR140
256 203	L262 L261 L450	
		VR280 VR251
		VR223
261 260	L265 L266 L302	
	T261	
253 272	X281	
270 271 266 265 254 268 267 255 252	PS301 VR252 VR222 VR450 VR221	
251		
250 206	L432 L251	VR240
409		
221	L436	
240 215 216 222 229	X201 X401	
228 205 208 224 239 226 225 210 422 207	L204 L205 L435 L431 T460 T450	
419	L430	
	L203	VR421
483		
481		

CIRCUIT SIDE

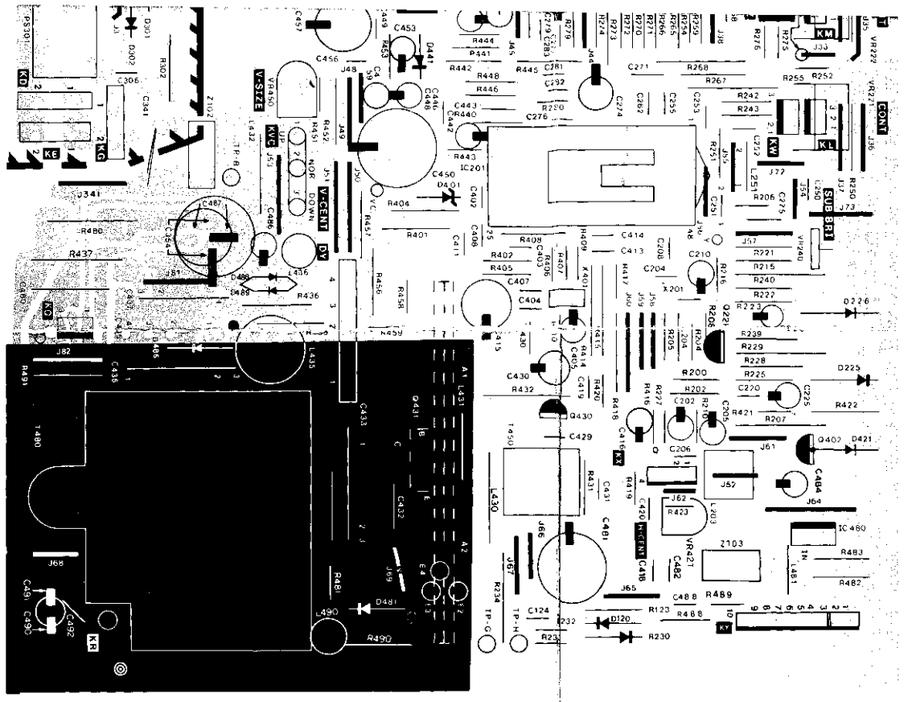


TUNER CIRCUIT BOARD

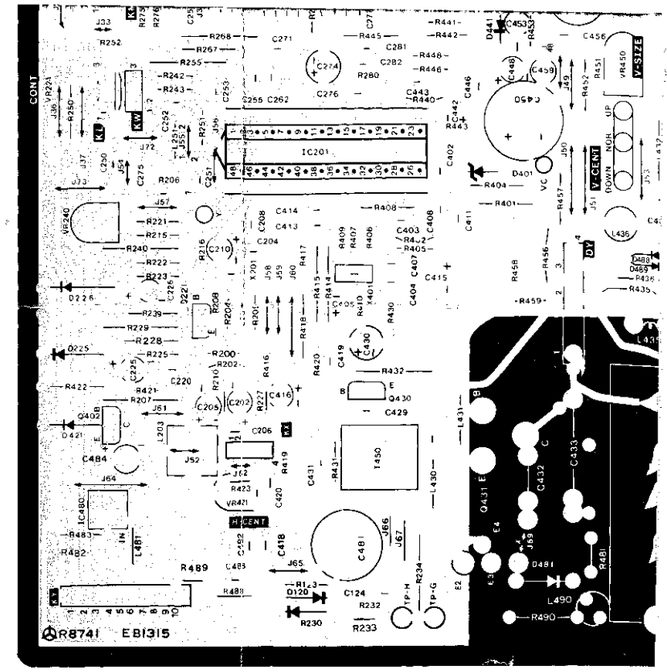
CIRCUIT SIDE



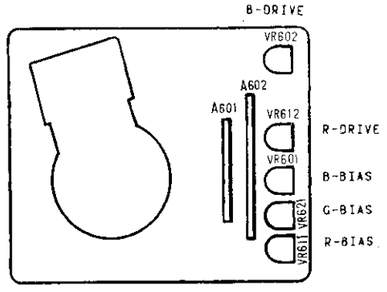
EB1209

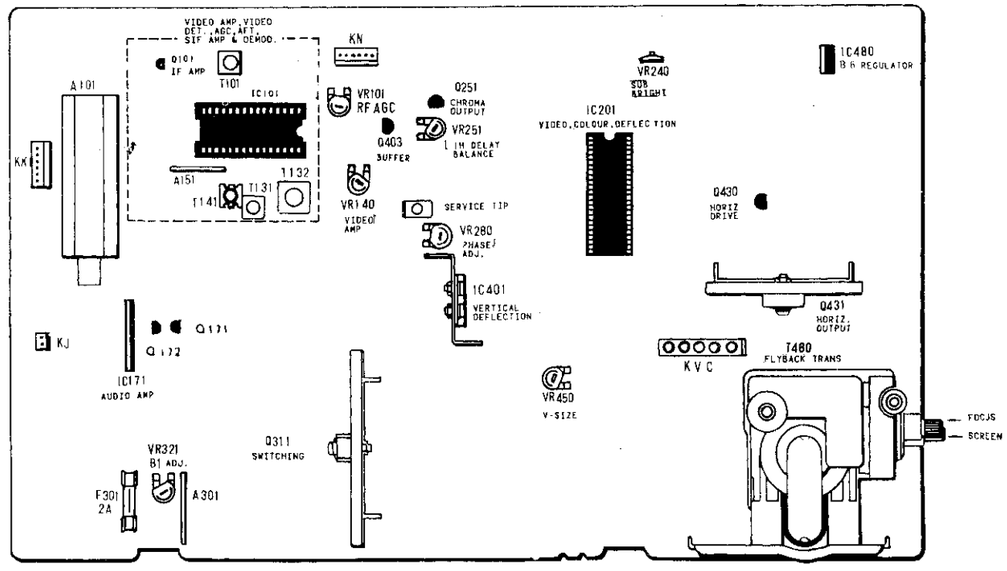


	KZ		304	451	258		272	X281	
			305	279		274	270		P5301
	KM	D301				279	271		
		D302	458	277		444	266		VR252
				453	441	280	265		VR222
KC		D441		281	271	445	254		
				282	302	442	259		VR450
				446	262	453	446	268	VR221
			341	449	443		448	267	
				448	255		280	255	
			442	276	274	451	242	252	
KK	KW			459	253		243		
KL					252		452	251	
KG	TP-B	IC201					449		L432
		D401		456	275			250	L251
				402	251		404	206	
							457		VR240
			354	408	414	480	401	409	
KVC	Y			413	413		438		
			486	411	210		407	221	L436
			437	403	208	402	406	215	
					204	405	477	240	
			404				456	216	X201
			480	407		436	458	222	X401
		Q221						229	
		D226	459		226	435	410	223	
		D486		415			459	228	L204
				405		430	414	205	L205
KQ		D225					415	208	L435
		Q430	436			491		224	
					419	220	432	239	
		Q431		430	225	420	416	226	L431
				433	205	418	227	210	
		Q402					202	422	T480
				429	202		421	207	T450
						484		419	L430
				431			431		
	KX			432	420				L203
		IC480						483	
					485				VR421
	Z	D481		418	481		481	481	
E2			490	124			234		
E3	TP-G	D120					232		
KR	TP-H			482			490	123	
							233	230	



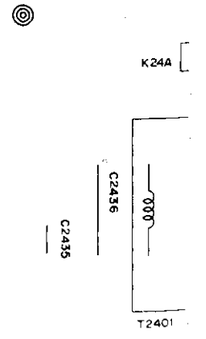
COMPONENT LOCATION



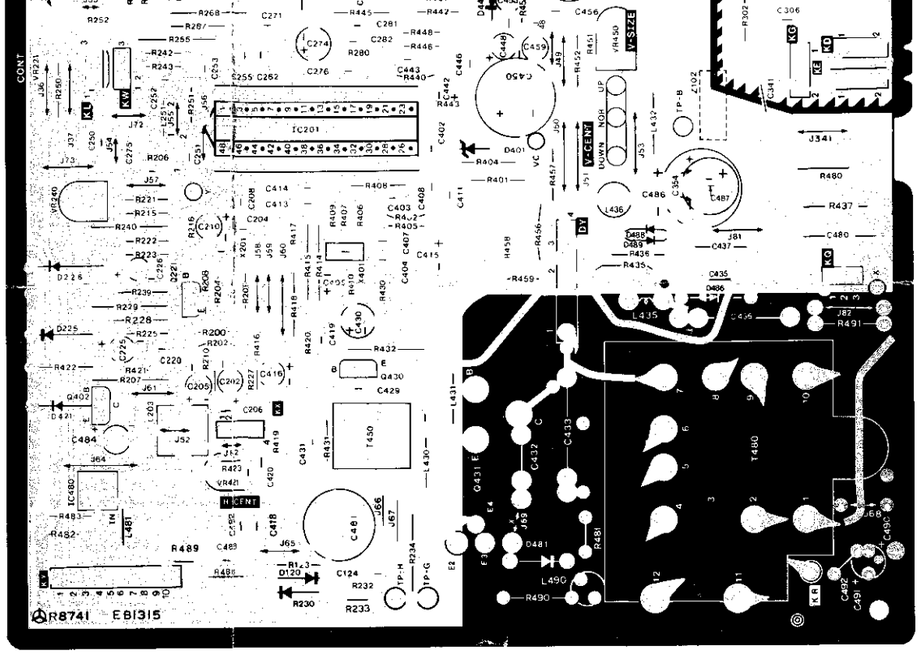


PCC BOARD

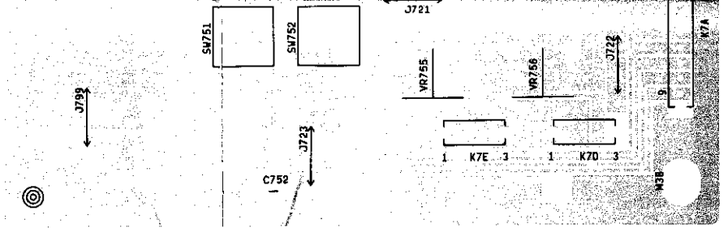
CIRCUIT SIDE



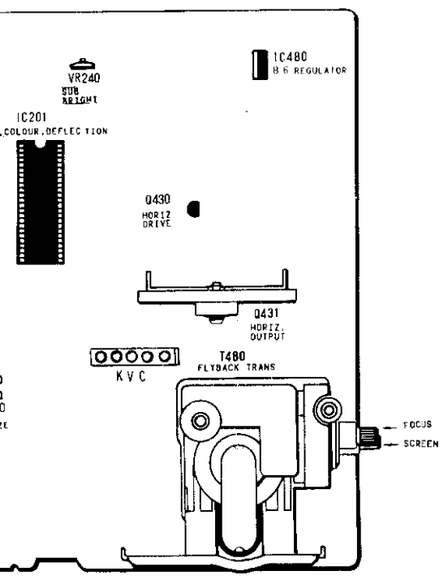
277			PS301
266			VR252
265			VR222
254			
259			
268			VR450
267			VR221
255			
252			
251			
250	L432		
	L251		
206			VR240
409			
221	L436		
215			
240			
216	X201		
222	X401		
229			
223			
228	L204		
205	L205		
208			
224	L435		
239			
226			
225			
210	L431		
422			
207	T480		
	T450		
	L430		
419			
	L203		
			VR421
483			
481			
123			
230			



EB1315

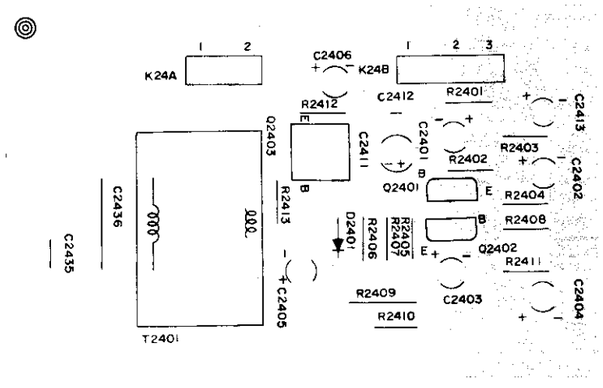


EB1209



PCC BOARD

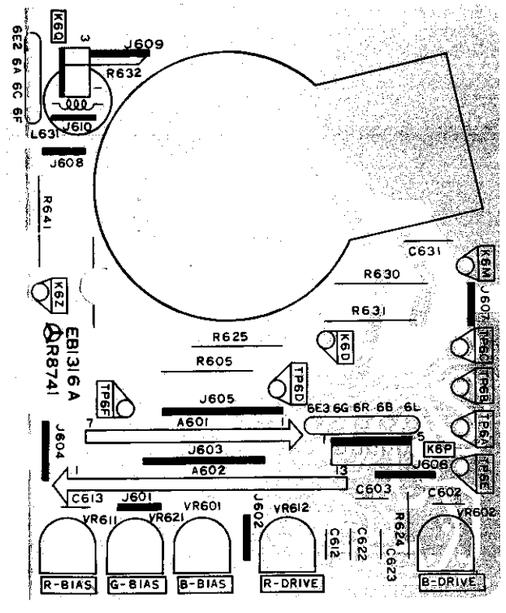
CIRCUIT SIDE



EB1269

CRT BOARD

COMPONENT SIDE



EB1316