

JVC

SERVICE MANUAL

VIDEO EDITING PROCESSOR

PAL

JX-SV77 (E), (EB), (EK)



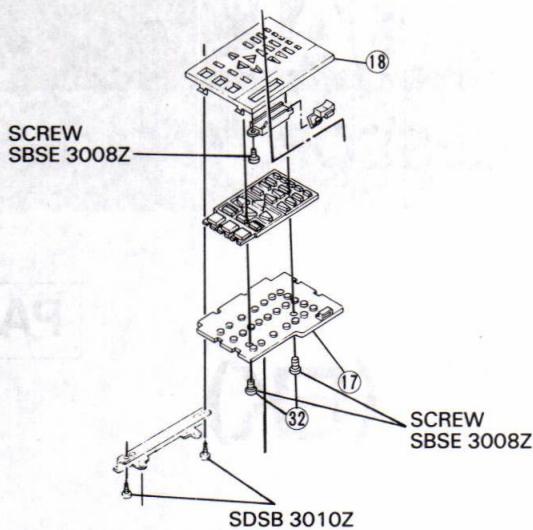
Additional Version

Since the basic specifications are same as those of the JX-SV77 (E), (EB), (EK), refer to the previously issued Service Manual No. 70086 together with this booklet.

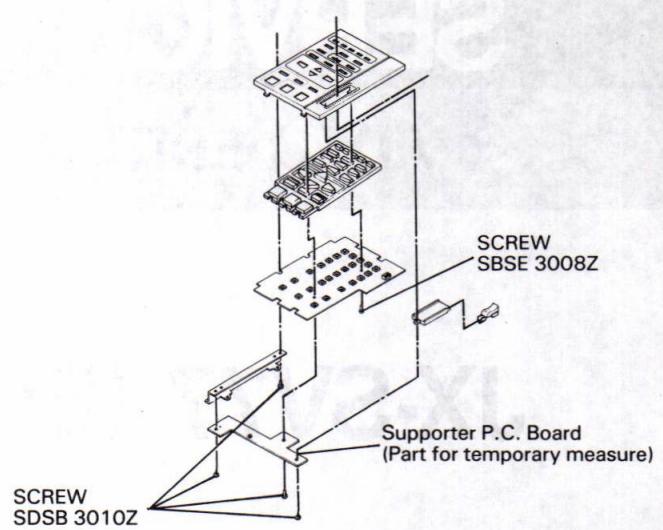
Operations from the front panel are entirely the same as the JX-SV77 (E), (EB), (EK).

- ① A faulty operation when using the C/G button may cause the C/G button to catch on the C/G plate. For this reason, the method of attaching the CG SW PC board assembly to the top cover has been changed as follows.**

1) Temporary measure (Serial No. 14401701-15402500)



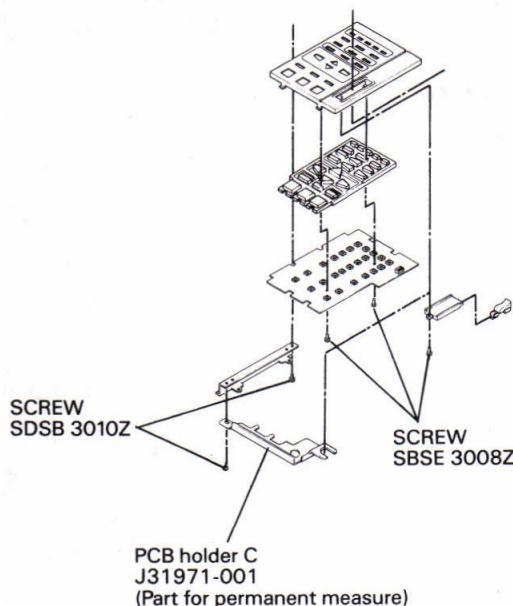
[Original]



[Temporary measure]

Note: Be careful of the length of the attachment screws.

2) Permanent measure (Serial No. 15402501 –)



Note: Be careful of the length of the attachment screws.

List of changed and additional parts

Part No.	Part Name	Q'ty	Remarks
J31971-001	PCB holder	1	

Use this permanent measure when servicing equipment.

[2] Changes in electrical circuits and parts.

- The following parts and circuits will be changed starting with # 2001 as a means of dealing with character generator circuit temperature characteristics.

Prior to change		Following change
Q24, 25	2SC2603E, F	Omission
R84, 86	QRD141J-221	Omission
R83, 93	QRD141J-392	Omission
VR1 ~ 4	QVPD602-472 (4.7KΩ)	QVPA601-222M (2.2KΩ)
VR5 ~ 6	QVPD672-103 (10KΩ)	QVPA601-222M (2.2KΩ)
R123	QRD141J-472 (4.7k ¼W)	QRD141J-272 (2.7KΩ ¼W)
R233	QRD141J-272 (2.7KΩ ¼W)	QRD141J-332 (3.3KΩ ¼W)
R90, 96	QRD141J-682 (6.8KΩ ¼W)	QRD141J-103 (10KΩ ¼W)
R99	QRD141J-392 (3.9KΩ ¼W)	QRD141J-272 (2.7KΩ ¼W)
R91, 92	QRD141J-392 (3.9KΩ ¼W)	J44847-392 (3.9KΩ ¼W)
R244	addition	J44847-562 (5.6KΩ ¼W)
R243	addition	J44847-472 (4.7KΩ ¼W)
R241	addition	QRD141J-122 (1.2KΩ ¼W)
R242	addition	QRD141J-682 (6.8KΩ ¼W)

- With the addition of EG specifications, the units will have common PC boards. Patterns and silk screen printing will be changed starting with EB # 2001. The parts numbers will be as follows.

Prior to change		Following change
Main P.C. Board	J31911-001	J31911-002
Main P.C. Board Ass'y	J31912-001	J31912-002
Video P.C. Board	J31913-001	J31913-002
Video P.C. Board Ass'y	J31914-001	J31914-002
Control P.C. Board	J31915-001	J31915-002
Control P.C. Board Ass'y	J31916-001	J31916-002

* Please refer to the block diagram, schematic diagram and printed circuit boards included.
All lists of electrical parts will be corrected due to the above changes and in order to correct erroneous entries.

12. Electric Parts List

Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks
	<Main PC Board>				
	ICs				
	IC301	M51279SP	IC	1	Mitsubishi
	IC302	M51272P	IC	1	Mitsubishi
	IC304, 305, 307, 309, 311	AN614	IC	5	Matsushita
	IC303, 306, 308, 310, 321, 322, 326	TC4066BP	IC	8	Toshiba
	IC312, 314, 318~320, 334	TC4538BP	IC	6	Toshiba
	IC315, 330	TC4011BP	IC	2	Toshiba
	IC316	TC4029BP	IC	1	Toshiba
	IC317	TC4073BP	IC	1	Toshiba
	IC323	TC4023BP	IC	1	Toshiba
	IC324	TC4001BP	IC	1	Toshiba
	IC325	μ PC319C	IC	1	NEC
	IC327	μ PD75106CW-157	IC	1	NEC
	IC313	TC4584BP	IC	1	Toshiba
	IC328	BR6116-100	IC	1	Rohm (or LC3517AL-15K)
	IC329	MB89012-106	IC	1	Fujitsu
	IC331	BA15218	IC	1	Rohm
	IC332	HA11423	IC	1	Hitachi
	IC333	TC74HC74P	IC	1	Toshiba
	IC335	M51951BSL	IC	1	Mitsubishi
	IC902	μ PC78L05J	IC	1	NEC
	Transistors				
	Q301~309, 312, 313, 316~ 330, 332~334, 336, 337, 339~342, 344~347, 363~365, 369~374	2SC2603E, F	Transistor	48	Mitsubishi
	Q314, 335, 338, 343, 377, 378	2SA1115E, F	Transistor	7	Mitsubishi
	Q331, 348~353, 356~359, 366, 385	DTA124ES	Digital Transistor	13	Rohm
	Q361, 362, 367, 375, 382~384, 386	DTC124ES	Digital Transistor	8	Rohm
	Diodes				
	D902, 903	RD6-2ES-B1	Zener Diode	2	NEC
	D302, 304~307, 309, 312~321, 601, 904	1SS119	Diode	18	Hitachi
	Capacitors				
	C474	EEZ0503-479	Electrolytic Capacitor	1	0.047F/5.5V
	C414, 423	QETB1AM-227	Electrolytic Capacitor	2	220 μ F/10V
	C338, 359, 360, 372, 378, 397~399, 403~405, 408, 467	QER51CM-106	Electrolytic Capacitor	13	10 μ F/16V
	C309, 325, 343, 347~350, 354, 363, 374, 395, 401, 402, 417~419, 424, 439, 497, 460	QETB1CM-476	Electrolytic Capacitor	19	47 μ F/16V
	C305, 355, 361, 364, 367, 371, 426, 435, 442, 443, 446, 448, 451, 463, 471	QETB1CM-107	Electrolytic Capacitor	15	100 μ F/16V
	C415, 416	QEN51VM-475	Electrolytic Capacitor	2	4.7 μ F/35V (non-polarity) (Available 50V)
	C317, 472	QEN51HM-474	Electrolytic Capacitor	1	0.47 μ F/50V
	C302, 304, 311, 316, 342, 353, 358, 362, 373, 375, 425, 464	QET51HM-105	Electrolytic Capacity	12	1 μ F/50V
	C315, 422	QETB1HM-225	Electrolytic Capacitor	6	2.2 μ F/50V
	C393, 394, 396, 891, 892	QETB1HM-475	Electrolytic Capacitor	3	4.7 μ F/50V
	C303, 889, 890	QCY21HK-102	Ceramic Capacitor	1	0.001 μ F/50V
	C301, 306~308, 320, 321, 323, 324, 331, 333, 335~337, 339, 341, 344, 346, 351, 352, 422, 428, 430, 436, 438, 440, 441, 445	QCY21HK-103	Ceramic Capacitor	31	0.01 μ F/50V
	C432, 452, 455~457	QCY21HK-101	Ceramic Capacitor	2	100pF/50V
	C444	QCY21HJ-331	Ceramic Capacitor	1	330pF/50V
	C313	QCY21HK-561	Ceramic Capacitor	1	560pF/50V
	C366, 369	QCS21HJ-7RO	Ceramic Capacitor	2	7pF/50V (SL)
	C332	QCS21HJ-8RO	Ceramic Capacitor	1	8pF/50V (SL)
	C314	QCS21HJ-100	Ceramic Capacitor	1	10pF/50V (SL)
	C429, 431	QCS21HJ-150	Ceramic Capacitor	2	15pF/50V (SL)
	C327	QCS21HJ-180	Ceramic Capacitor	1	18pF/50V (SL)
	C420, 476	QCS21HJ-200	Ceramic Capacitor	2	20pF/50V (SL)
	C421, 475	QCS31HJ-300Z	Ceramic Capacitor	2	30pF/50V (SL)
	C368	QCS21HJ-470	Ceramic Capacitor	1	47pF/50V (SL)

Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks
C334, 437, 601	QCS21HJ-560	Ceramic Capacitor	3	56pF/50V (SL)	
C370	QCS21HJ-221	Ceramic Capacitor	1	220pF/50V (SL)	
C390	QCT26CH-270	Ceramic Capacitor	1	27pF/50V (CH)	
C381, 384, 386, 389, 478	QCT26CH-101	Ceramic Capacitor	3	100pF/50V (CH)	
C383	QCT26CH-151	Ceramic Capacitor	1	150pF/50V (CH)	
C450	QCS21HJ-201	Ceramic Capacitor	1	200pF/50V (SL)	
C385	QCT26CH-221	Ceramic Capacitor	1	220pF/50V (CH)	
C884~887	QCY21HK-682	Ceramic Capacitor	4	0.0068μF/50V	
C377, 387, 388, 406, 407, 462	QFV81HJ-333	Mylar Capacitor	7	0.033μF/50V	
C318, 319, 322, 326, 330	QFV81HJ-473	Mylar Capacitor	5	0.047μF/50V	
C328, 329, 356, 357, 473	QFV81CJ-104	Mylar Capacitor	5	0.1μF/16V	
C310, 392	QFV81HJ-104	Mylar Capacitor	2	0.1μF/50V	
C391	QFN31HJ-222	Mylar Capacitor	1	0.0022μF/50V	
C380, 382, 466, 477, 602	QFN31HJ-332	Mylar Capacitor	4	0.0033μF/50V	
C469	QFN31HJ-562Z	Mylar Capacitor	1	0.0056μF/50V	
C468	QFN31HJ-682Z	Mylar Capacitor	1	0.0068μF/50V	
C379	QFN31HJ-103	Mylar Capacitor	1	0.01μF/50V	
C411, 412, 465	QFN31HJ-153	Mylar Capacitor	2	0.015μF/50V	
C409, 410	QFN31HJ-183	Mylar Capacitor	2	0.018μF/50V	
C312	J44141-300	Trim Capacitor	1	30pF	
Resistors					
R310, 424, 451, 608, 723, 764, 769, 788	QRD141J-101	Carbon Resistor	8	100Ω 1/4W	
R505	QRD141J-151	Carbon Resistor	1	150Ω 1/4W	
R301	QRD141J-181	Carbon Resistor	1	180Ω 1/4W	
R307, 316, 317, 324, 328, 329, 340, 341, 355, 356, 382, 404, 408, 409, 434, 436, 443, 444, 492, 526, 573, 574, 577, 578, 587, 605, 606, 607, 611, 706, 707, 731, 748, 904	QRD141J-102	Carbon Resistor	34	1KΩ 1/4W	
R376, 377, 491, 525	QRD141J-122	Carbon Resistor	5	1.2KΩ 1/4W	
R308, 311, 343, 402, 742, R321, 323, 325, 332~335, 339, 347, 357, 361, 387~392, 397, 398, 420, 421, 442, 456, 458, 462, 468, 474, 475, 506~508, 520, 521, 547, 575, 576, 601, 761, 768, 779	QRD141J-152	Carbon Resistor	5	1.5KΩ 1/4W	
R484, 556, 579	QRD141J-103	Carbon Resistor	40	10KΩ 1/4W	
R396, 453, 510, 513, 614, 766	QRD141J-123	Carbon Resistor	3	12KΩ 1/4W	
R304, 704, 770	QRD141J-153	Carbon Resistor	6	15KΩ 1/4W	
R454, 460, 461, 463, 469, 775	QRD141J-183	Carbon Resistor	3	18KΩ 1/4W	
R312	QRD141J-104	Carbon Resistor	6	100KΩ 1/4W	
R755, 773	QRD141J-154	Carbon Resistor	1	150KΩ 1/4W	
R512, 519, 549, 594, 597, 599, 600, 713, 729, 738, 749, 759, 760	QRD141J-105	Carbon Resistor	2	1MΩ 1/4W	
R589	QRD141J-221	Carbon Resistor	13	220Ω 1/4W	
R479, 503, 511, 514, 588, 590, 732, 602, 603,	QRD141J-202	Carbon Resistor	1	2KΩ 1/4W	
R318, 319, 371, 372, 374, 375, 383, 410, 412, 427, 428, 431, 432, 473, 480, 501, 739, 740	QRD141J-222	Carbon Resistor	9	2.2KΩ 1/4W	
R303, 448	QRD141J-272	Carbon Resistor	18	2.7KΩ 1/4W	
R345, 350, 401, 422, 440, 459, 489, 522, 527~530, 563, 572, 582, 604, 610, 615, 705, 710~712, 722, 724, 758, 763, 777, 778, 781~783, 785	QRD141J-203	Carbon Resistor	2	20KΩ 1/4W	
R305, 466	QRD141J-223	Carbon Resistor	32	22KΩ 1/4W	
R786	QRD141J-225	Carbon Resistor	2	27KΩ 1/4W	
R336, 337, 362, 363, 747	QRD141J-330	Carbon Resistor	1	2.2MΩ 1/4W	
R302, 414, 416, 430, 433, 472, 498, 570, 747, 754	QRD141J-331	Carbon Resistor	4	33Ω 1/4W	
R502	QRD141J-391	Carbon Resistor	10	330Ω 1/4W	
R314, 315, 338, 342, 406, 415, 417, 445, 470, 569, 613, 709, 746, 386	QRD141J-332	Carbon Resistor	1	390Ω 1/4W	
R327	QRD141J-362	Carbon Resistor	14	3.3KΩ 1/4W	
R330, 331, 348, 419, 438, 457, 509, 566, 595, 596, 715, 725, 744	QRD141J-392	Carbon Resistor	1	3.6KΩ 1/4W	
				13	3.9KΩ 1/4W

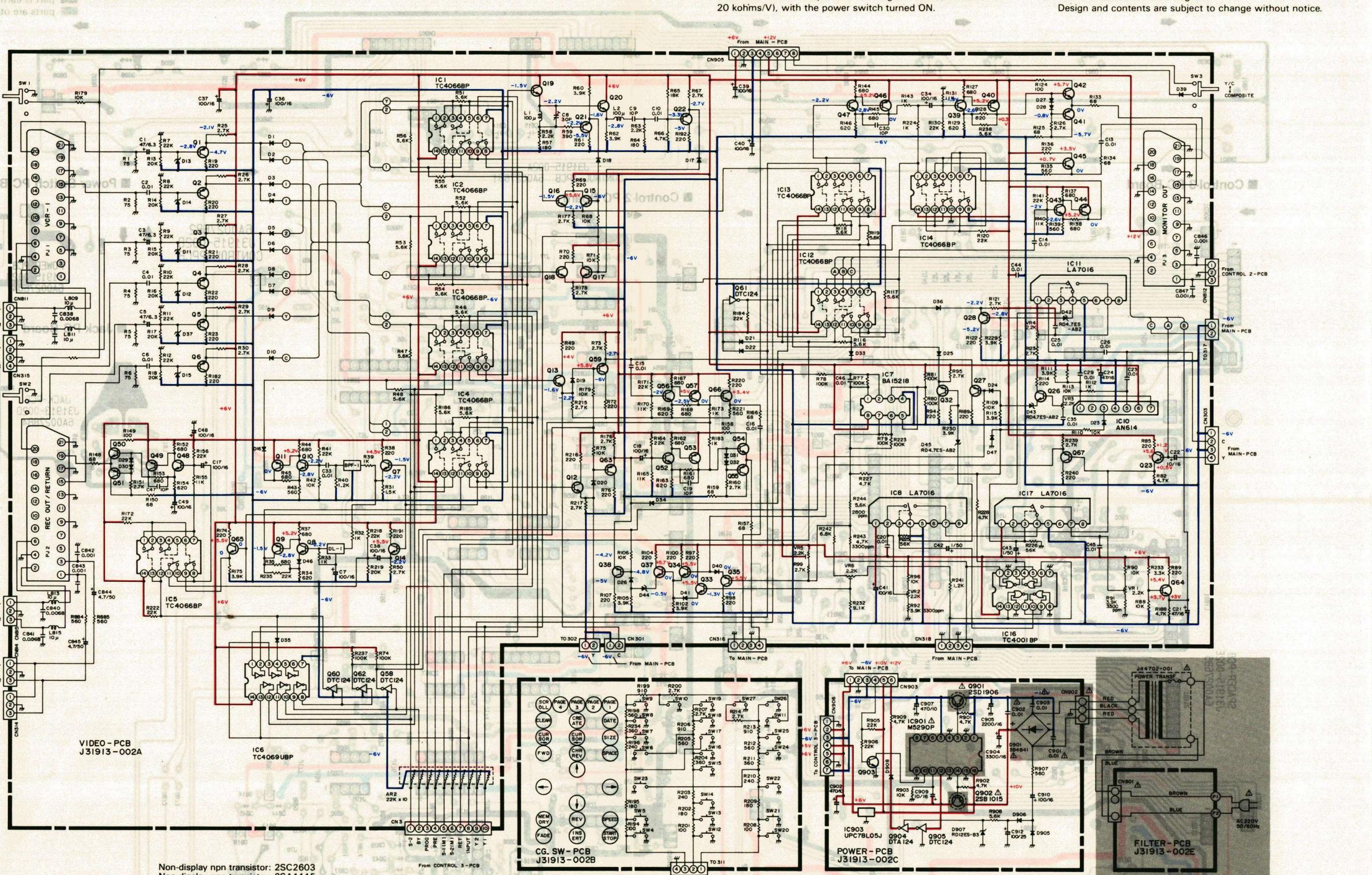
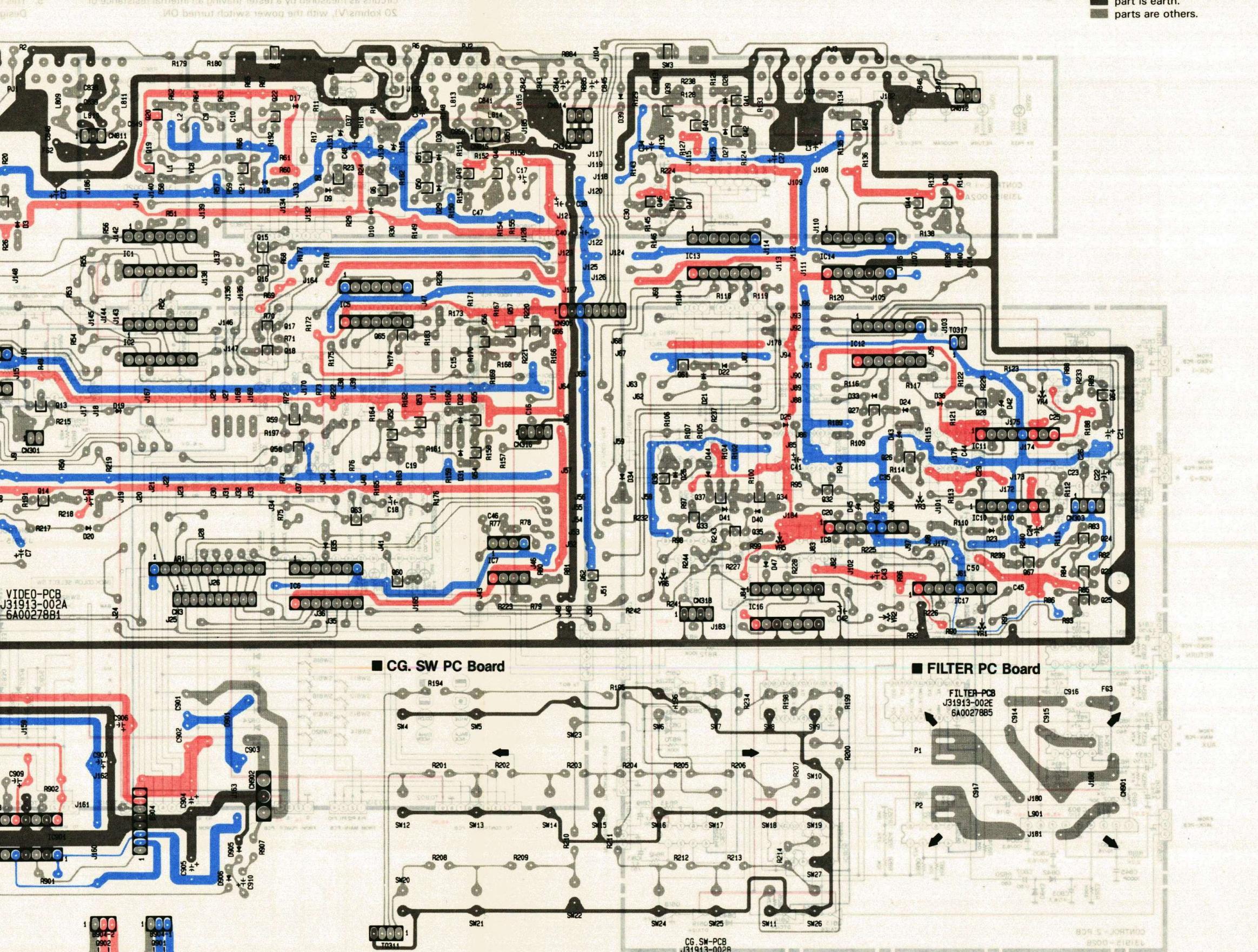
△	Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks
	R393~395, 485~488, 493~497, 523, 524, 771 R313, 735 R403, 476, 478 R358, 360, 365, 380, 384, 385, 407, 429, 435, 446, 447, 452, 481~483, 490, 499, 500, 517, 518, 554, 557, 580, 581, 730, 767, 787 R344, 346, 351, 400, 423, 439, 455, 553, 571, 591 R306 R756, 757 R381 R368, 373, 548, 953, 954 R320, 322, 399, 545, 609, 679, 721, 728 R515, 516 R309 R471, 477, 504, 612, 708 R762, 765 R413, 749 R352 R353, 544, 776 R465, 772 R418, 551 R745 VR335, 340 VR305, 306, 320, 343, 344 VR303, 308, 309, 312~314, 316~318, 337 VR315, 330~333, 336, 338, 339, 346 VR322, 324, 328, 334 VR323 VR301, 302, 321, 326, 327, 329 AR1	QRD141J-333 QRD141J-394 QRD141J-471 QRD141J-472 QRD141J-473 QRD141J-474 QRD141J-560S QRD141J-511 QRD141J-561 QRD141J-562 QRD141J-563 QRD141J-680 QRD141J-682 QRD141J-683 QRD141J-684 QRD141J-821 QRD141J-822 QRD141J-823 QRD141J-912 J44698-001 QVPD602-501 QVPD602-102 QVPD602-202 QVPD602-502 QVPD602-103 QVZ3513-103 QVPD602-503 QRB045J-223	Carbon Resistor Carbon Resistor Semi-fixed Resistor Slide Switch 21 Pin Jack Pin Jack Pin Jack Mini Jack	15 2 5 27 10 1 2 1 5 8 2 1 5 2 1 2 1 1 2 5 10 9 4 1 6 1	33KΩ 1/4W 390KΩ 1/4W 470Ω 1/4W 4.7KΩ 1/4W 47KΩ 1/4W 470KΩ 1/4W 56Ω 1/4W 510Ω 1/4W 560Ω 1/4W 5.6KΩ 1/4W 56KΩ 1/4W 68Ω 1/4W 6.8KΩ 1/4W 68KΩ 1/4W 680KΩ 1/4W 820Ω 1/4W 8.2KΩ 1/4W 82KΩ 1/4W 9.1KΩ 1/4W 6.8KΩ 1/4W 500B 1KB 2KB 5KB 10KB 10KB 50KB 22KΩ × 4	
	L301 L302, 303 L304 X301 X302 L801~808 SW301 PJ301, 2 PJ303 PJ304 PJ305~307	J42574-390 J42574-101 J42574-150 J44699-001 J44700-001 EQL4004-100 J44750-001 J44343-001 J44424-001 J44423-001 J44421-001	Inductor Inductor Inductor CERA-LOCK CRYSTAL Inductor Slide Switch 21 Pin Jack Pin Jack Pin Jack Mini Jack	1 2 1 1 1 8 1 2 1 1 1 3	39μH 100μH 15μH 3.58MHz 17.734475MHz 10μH	
1	Connectors CN302, 317 CN307 CN309 CN306 CN305 CN308 CN311 CN313 CN312	J44436-001 J43143-001 J44704-001 J44704-002 J44705-001 J44705-002 J44705-003 J44705-004 J44706-001 J31911-002 J31912-002	Connector Connector Connector Connector Connector Connector Connector Connector Connector Main PC Board Main PC Board Ass'y	2 1 1 1 1 1 1 1 1 1 1	2P 6P 3P (Blue) 3P (White) 4P (Blue) 4P (Red) 4P (Black) 4P (Yellow) 10P (Blue)	
△	<VIDEO PC Board> ICs IC1~5, 12~14 IC6 IC7 IC8, 11, 17 IC10 IC16 IC901 IC903	TC4066BP TC4069μBP BA15218 LA7016 AN614 TC4001BP M5290P μPC78L05J	IC IC IC IC IC IC IC	8 1 1 3 1 1 1	Toshiba Toshiba Rohm Sanyo Matsushita Toshiba Mitsubishi NEC	

▲	Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks
		Diodes D11~15, 37 D42~45 D907 D1~10, 16~36, 39~41, 46, 47, 905, 906, 908 D901	RD8.2ES-B3 RD4.7ES-B2 RD12ES-B3 ISS119 2B4B41	Zener Diode Zener Diode Zener Diode Diode Bridge Diode	6 4 1 39 1	Hitachi Toshiba
▲		Transistors Q1~6, 9, 11, 21, 22, 27, 28, 32, 35, 38, 40, 41, 44, 46, 49, 51, 53, 55, 57, 59, 63, 67 Q7, 8, 10, 12~20, 23, 26, 33, 34, 37, 39, 42, 43, 45, 47, 48, 50, 52, 54, 56, 64~66, 903 Q58, 60~62, 905 Q904 Q901 Q902	2SA1115F, F 2SC2603F, F DTC124ES DTA124ES 2SD1406 2SB1015	Transistor Transistor Digital Transistor Digital Transistor Transistor Transistor	25 31 5 1 1 1	Mitsubishi Mitsubishi Rohm Rohm
▲		Capacitors C1, 3, 5 C906, 907 C22, 909 C21, 24 C7, 17, 18, 27, 28, 34, 36~41, 48, 49, 910, 912 C905 C904 C42, 43 C844, 845 C842, 843, 846, 847 C838~841 C2, 4, 6, 10, 13~16, 20, 23, 25, 26, 29, 33, 35, 44~46, 901~903 C19, 30, 47 C9 C8	QEK50JM-476 QETB1AM-477 QETB1CM-106 QETB1CM-476 QETB1CM-107 QETB1CM-228 QETB1CM-338 QET51HM-105 QETB1HM-475 QCY21HK-102 QCY21HK-682 QCY21HK-103 QCS21HJ-100 QCS21HJ-150 J44141-300	Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Electrolytic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Ceramic Capacitor Trim Capacitor	3 2 2 2 14 1 1 2 2 4 4 21 5 1 1	47μF/6.3V 470μF/10V 10μF/16V 47μF/16V 100μF/16V 2200μF/16V 3300μF/16V 1μF/50V 4.7μF/50V 0.001μF/50V 0.0068μF/50V 0.01μF/50V 10pF/50V (SL) 15pF/50V (SL) 30pF
		Resistors R124, 149, 158, 194, 201, 208 R57, 64, 195, 202, 209 R32, 33, 39, 42, 112, 143, 173, 183, 224 R40, 241 R31 R42, 68, 71, 75, 88, 90, 96, 106, 109, 110, 113, 179, 197, 903 R140, 155, 165, 170 R65 R74, 77~81, 223, 237 R19~23, 38, 49, 61, 69, 70, 72, 76, 85, 89, 94, 97, 98, 100, 104, 107, 114, 122, 136, 174, 182, 187, 189, 191, 192, 216, 220, 240 R196, 203, 210 R58, 63 R25~30, 50, 67, 73, 95, 99, 121, 123, 126, 151, 160, 176~178, 200, 207, 214, 215, 217, 239 R13~18, 219 R882, 883 R7~12, 41, 156, 164, 171, 172, 184, 218, 222, 235, 905, 906 R204, 211, 234 R59 R60, 62, 102, 105, 111, 115, 175, 229, 230 R66, 82, 188, 227, 228, 829, 901, 902, 909 R43, 135, 139, 198, 205, 212, 221, 884, 885, 907	QRD141J-101 QRD141J-181 QRD141J-102 QRD141J-122 QRD141J-152 QRD141J-103 QRD141J-113 QRD141J-183 QRD141J-104 QRD141J-221 QRD141J-241SZ QRD141J-222 QRD141J-272 QRD141J-203 QRD141J-330 QRD141J-223 QRD141J-361SY QRD141J-391 QRD141J-392 QRD141J-472 QRD141J-561	Carbon Resistor Carbon Resistor	7 5 8 2 1 12 4 1 7 30 3 2 22 7 2 17 3 2 1 8 6 10	100Ω 1/4W 180Ω 1/4W 1KΩ 1/4W 1.2KΩ 1/4W 1.5KΩ 1/4W 10KΩ 1/4W 11KΩ 1/4W 18KΩ 1/4W 100KΩ 1/4W 220Ω 1/4W 240Ω 1/4W 2.2KΩ 1/4W 2.7KΩ 1/4W 20KΩ 1/4W 33Ω 1/4W 22KΩ 1/4W 360Ω 1/4W 390Ω 1/4W 3.9KΩ 1/4W 4.7KΩ 1/4W 560Ω 1/4W

△	Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks
		R233 R91, 92 R243 R244 R46~48, 51~56, 116~119, 185, 186, 238, 908 R225, 226 R125, 133, 134, 148, 150, 157, 159, 166 R34, 129, 146, 154, 163, 169 R35, 37, 44, 45, 127, 128, 137, 138, 144, 145, 152, 153, 161, 162, 167, 168 R180 R242 R1~6 R128 R199, 206, 213 R232 VR1~6	QRD141J-332 J44847-392 J44847-472 J44847-562 QRD141J-562 QRD141J-563 QRD141J-680 QRD141J-621 QRD141J-681 QRD141J-622SZ QRD141J-682 QRD141J-750 QRD141-821 QRD141J-911SZ QRD141-912 QVPA 601-222M	Carbon Resistor Metal Resistor Metal Resistor Metal Resistor Carbon Resistor Semi-fixed Resistor	1 2 1 1 13 2 8 6 15 1 1 6 75Ω 1/4W 820Ω 1/4W 910Ω 1/4W 9.1KΩ 1/4W 6.2KΩ 1/4W 6.8KΩ 1/4W 75Ω 1/4W 820Ω 1/4W 910Ω 1/4W 2.2KΩ	3.3KΩ 1/4W 3.9KΩ 1/4W (For dealing with temperature) 4.7KΩ 1/4W (For dealing with temperature) 5.6KΩ 1/4W (For dealing with temperature) 5.6KΩ 1/4W
	3 4	PJ801 PJ802 PJ1~3 SW1~3 SW4~27 L1, 2 L809~816 DL-1 BPF-1	J44752-001 J44419-001 J44343-001 J44750-001 J43126-001 J42574-101 EQL4004-100 J44751-001 J43411-001	Mic Jack Headphone Jack 21 pin Connector Slide Switch Tact Switch Inductor Inductor Delay Line B.P.F	1 1 3 3 24 2 8 1 1	100μH 10μH
△	2	Connectors CN301, 317 CN314, 804, 809, 811, 812, 814, 815 CN303, 315, 316, 318 CN903 CN906 CN905 CN3 CN901, 902	J44436-001 J43612-001 J43681-001 J43143-001 J43144-001 J43683-001 J44706-002 J43613-001 J31913-002 J31914-002	Connectors Connectors Connectors Connectors Connectors Connectors Connectors Connectors Video P.C. Board Video P.C. Board Ass'y	2 7 4 1 1 1 1 2 1	2P 3P 4P 6P 7P 8P 10P (Red) 3P (For the use of Power Supply)
		<Control PC Board> ICs IC801 IC802, 804, 805, 807, 810~815, 819~822 IC806, 816, 818 IC809, 817 IC803	M50780SP BA15218 TC4066BP TC4052BP LA3210	IC IC IC IC IC	1 14 3 2 1	Mitsubishi Rohm Toshiba Toshiba Sanyo
		Transistors Q814~818 Q801~813, 819, 821	DTC124ES DTA124ES	Digital Transistor Digital Transistor	5 15	Rohm Rohm
		Diodes D820~834, 836~839, 842~845 D801~803, 805, 806, 808~814 D804, 807, 815~819 D840, 841 D835 LV801	ISS119 SLR34MG70F165 SLR34YY70F165 SLR34VR70F130 SLR34VR70F165 PU60930	Diode LED LED LED LED LED Level Meter	23 12 7 2 1 1	Hitachi Green Rohm Yellow Rohm Red Rohm Red Rohm Rohm
		Capacitors C801, 809, 814, 815 C804, 805, 816, 817, 820, 821, 828, 829 C818 C803, 806 C810~812, 822~825, 837 C807, 813, 819 C827	QETBOJM-106 QETBOJM-107 QETBOJM-227 QETBIAM-476 QETBIJM-225 QETBIHM-475N QCY21HK-103	Electolytic Capacitor Electolytic Capacitor Electolytic Capacitor Electolytic Capacitor Electolytic Capacitor Electolytic Capacitor Ceramic Capacitor	4 8 1 2 8 3 1	10μF/6.3V 100μF/6.3V 220μF/6.3V 47μF/6.3V 2.2μF/50V 4.7μF/50V 0.01μF/50V

△	Item No.	Symbol No.	Part No.	Part Name	Q'ty	Remarks	
		TO802	J44721-016	Wire Ass'y	1	9P	
		TO801	J44722-015	Wire Ass'y	1	10P	
		TO312	J44722-028	Wire Ass'y	1	10P	
		TO3	J44722-034	Wire Ass'y	1	10P	
		TO903	J44723-001	Wire Ass'y	1		
		TO906	J44724-001	Wire Ass'y	1		
		TO905	J44725-001	Wire Ass'y	1		
		B904	J44726-001	Wire Ass'y	1		
△	6	<OTHERS>		J44702-001	Power Transformer	1	Continental Europe (220V)
△				J44703-001	Power Transformer	1	U.K. only (240V)
△	7			QMP3900-200H	Power Cord	1	Continental Europe
△				QMP9017-008BS	Power Cord	1	U.K. only

* Parts marked (△) are safety parts. When replacing, be sure to use the specified one.

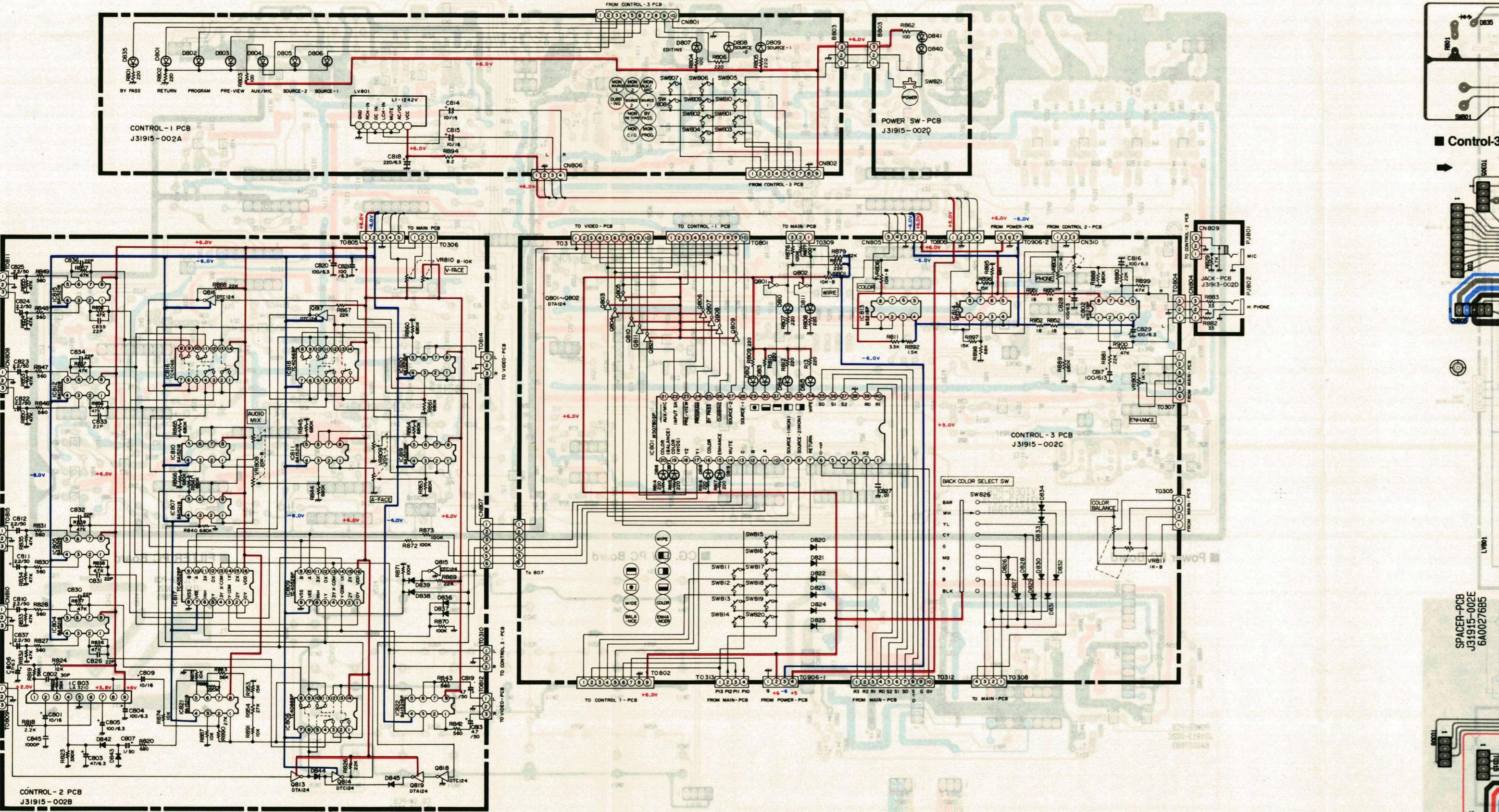
Schematic Diagram (Video & Power Circuit)**Printed Circuit Board (Full Scale)**

● Use of Schematic Diagram

Notes:

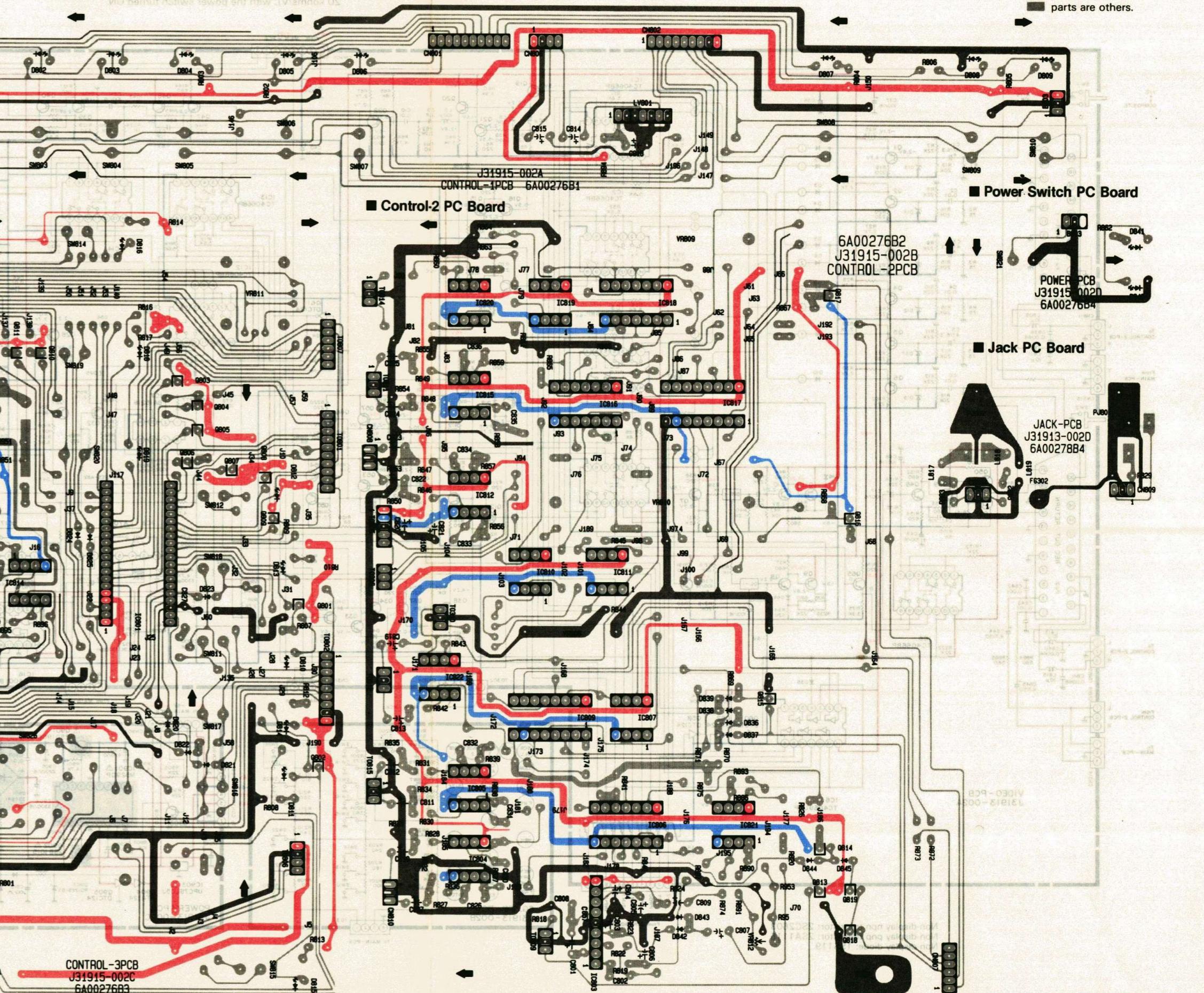
1. Red line shows the B (+) power supply.
2. Blue line shows the B (-) power supply.
3. Values printed in red show the voltage of each section of the circuits as measured by a tester (having an internal resistance of 20 kohms/V), with the power switch turned ON.

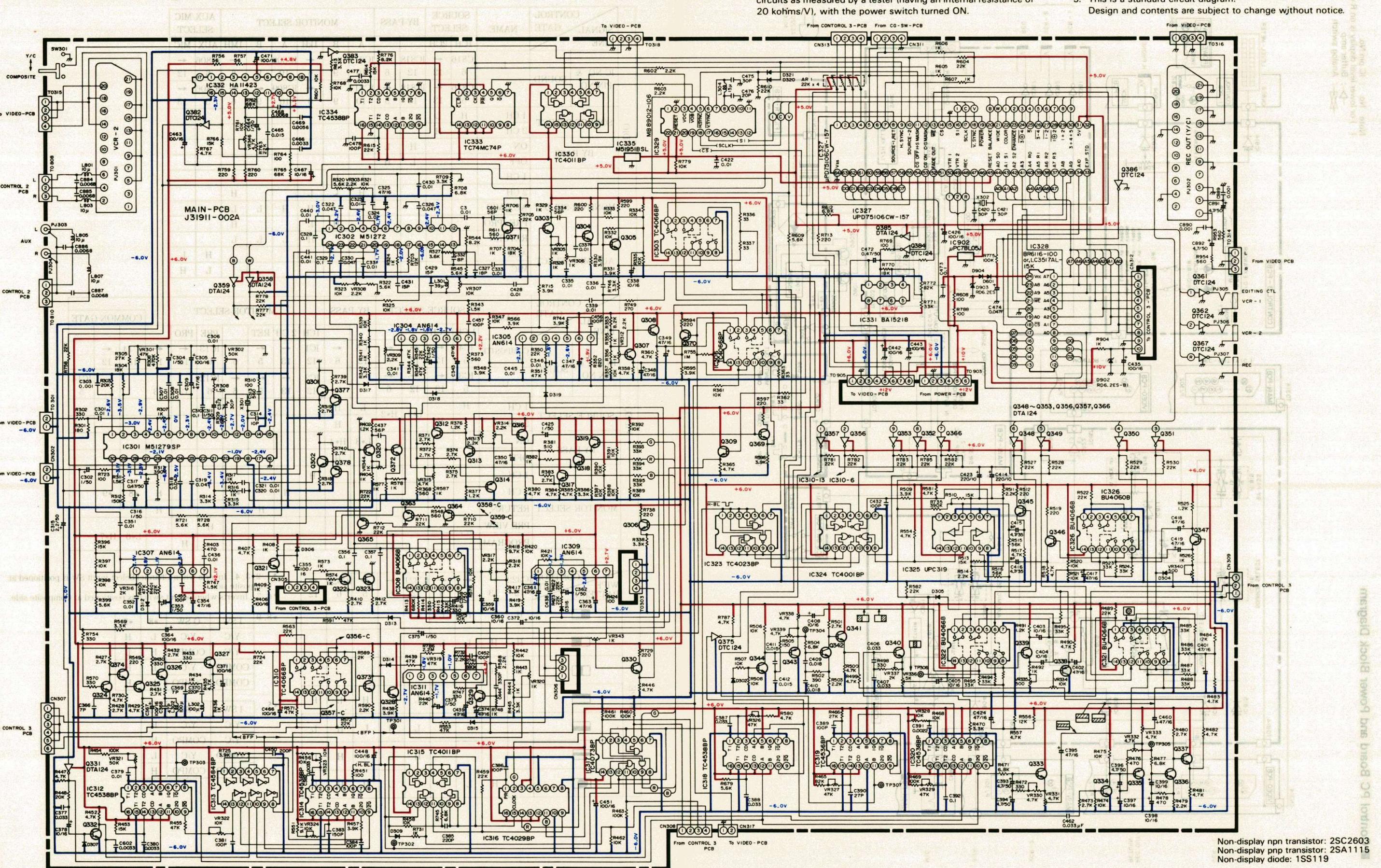
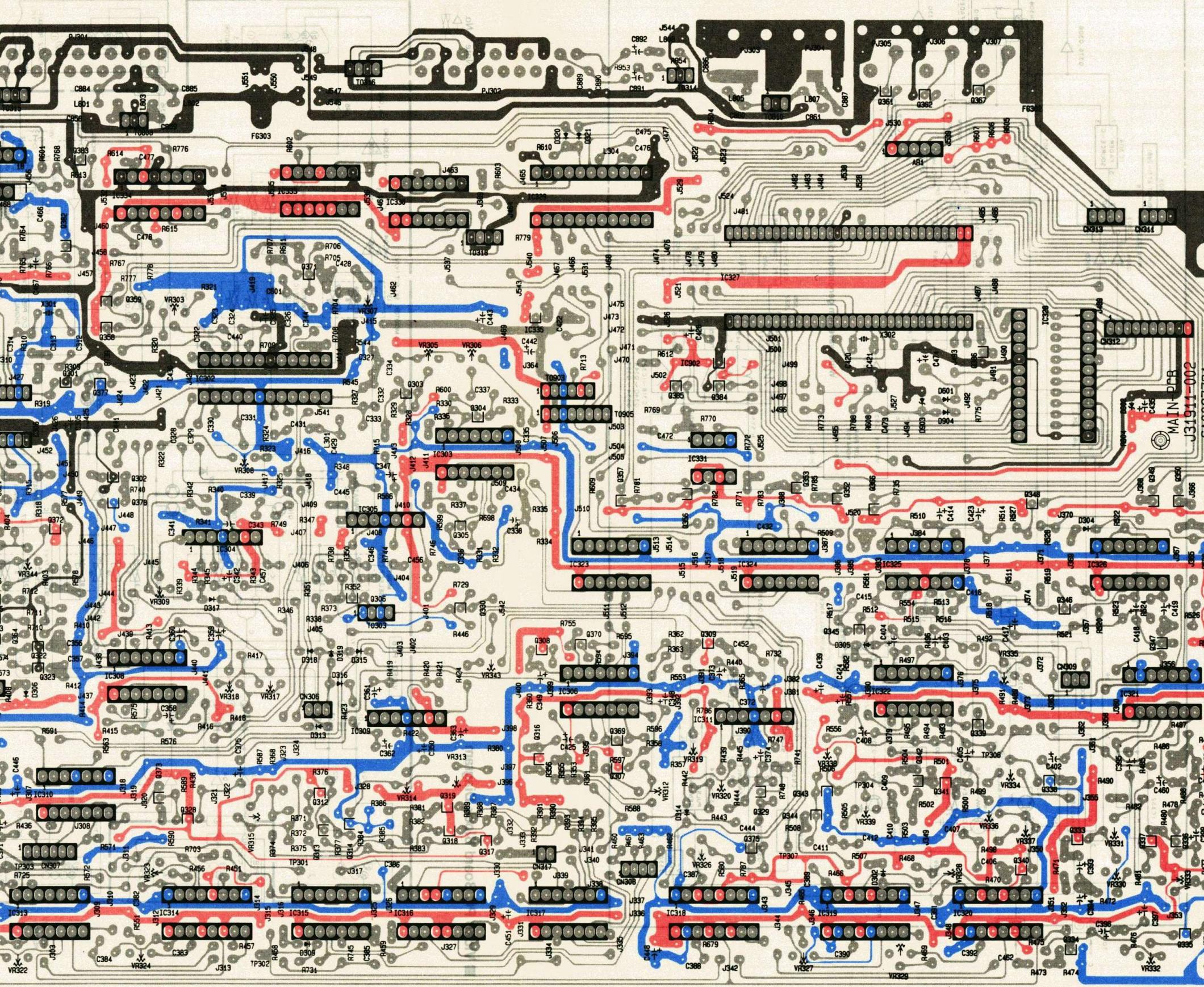
4. Parts marked with Δ in the shaded areas are safety parts. When replacing these, be sure to use only the designated parts to ensure safety.
 5. This is a standard circuit diagram.
- Design and contents are subject to change without notice.

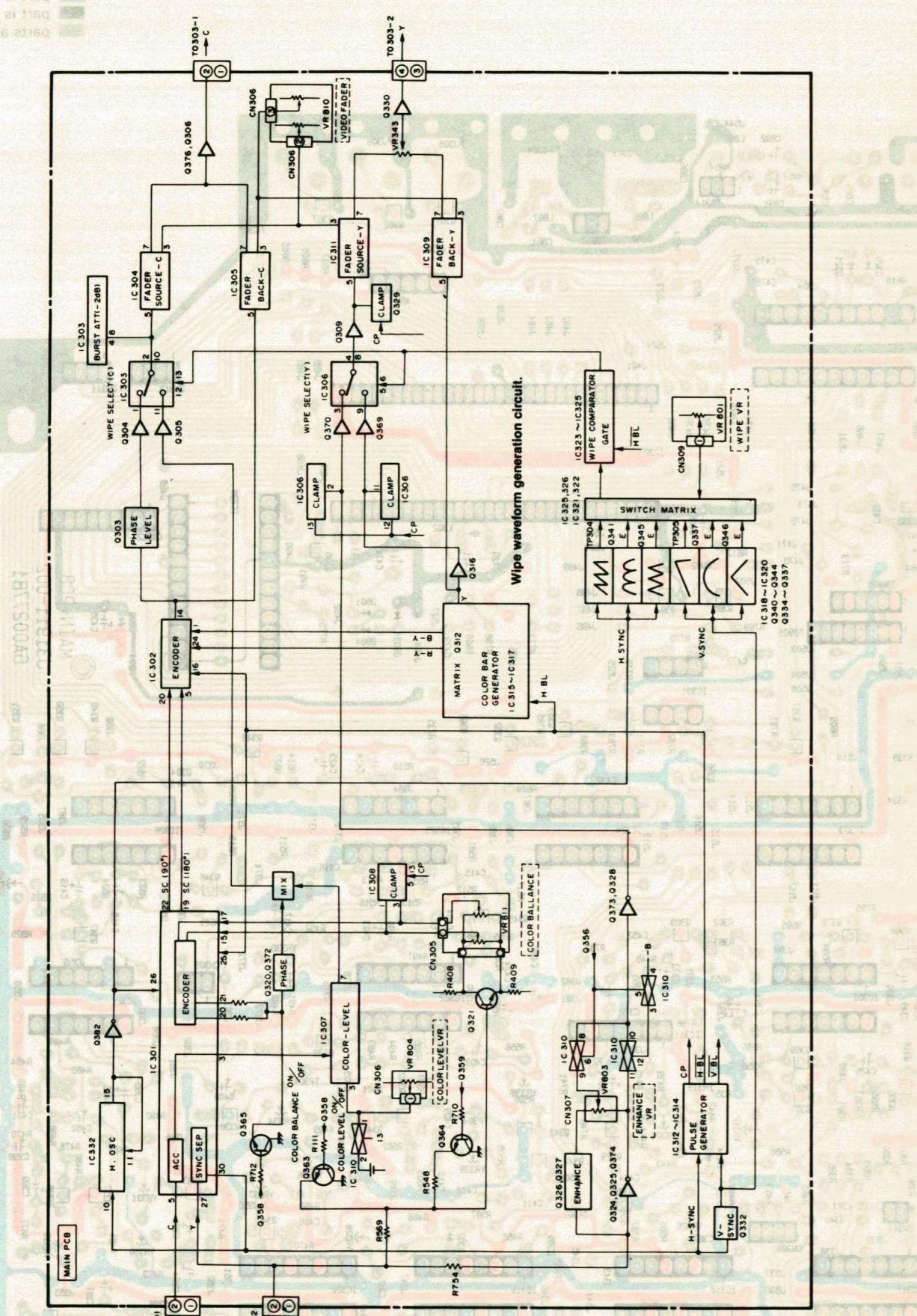
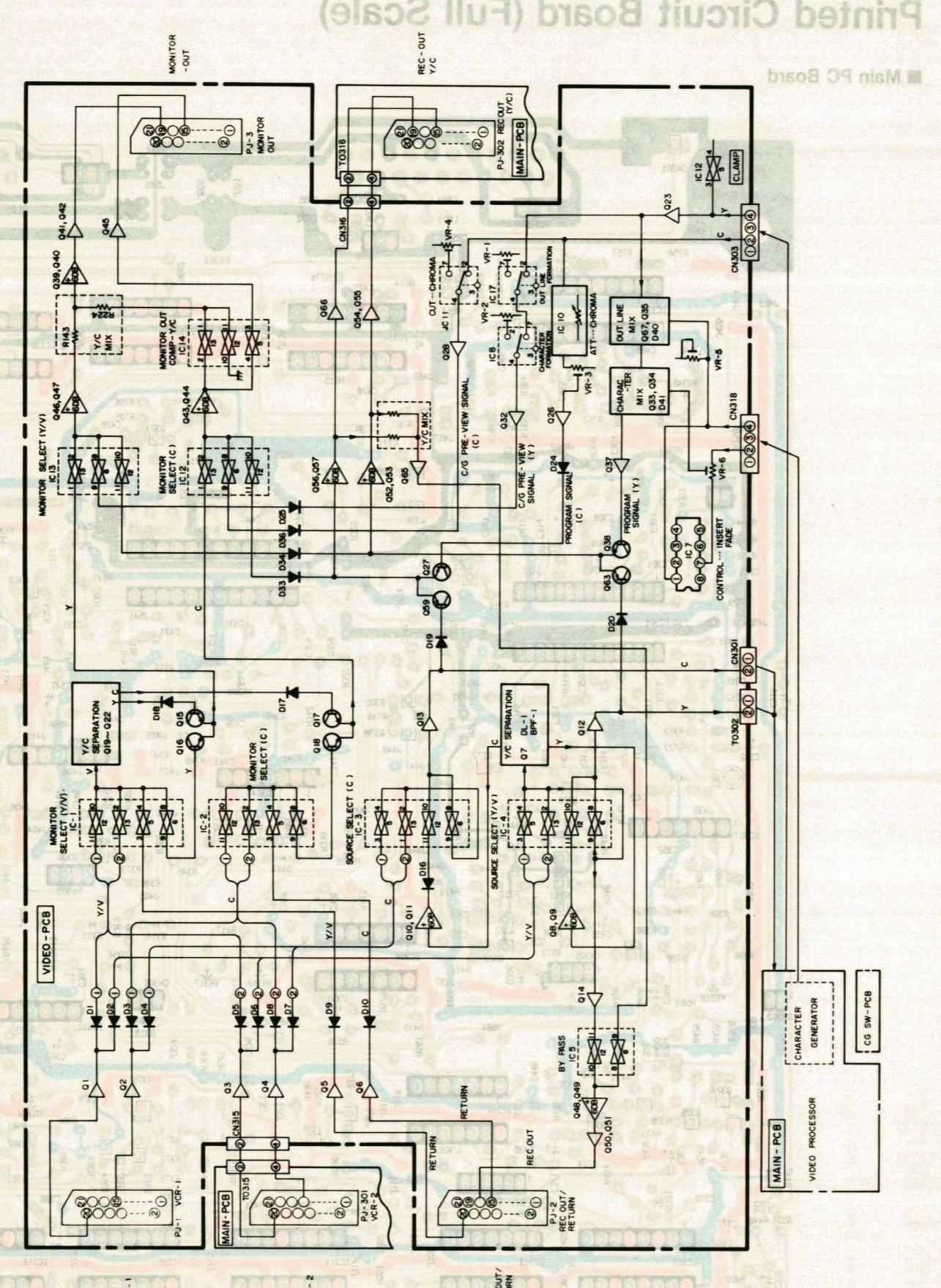
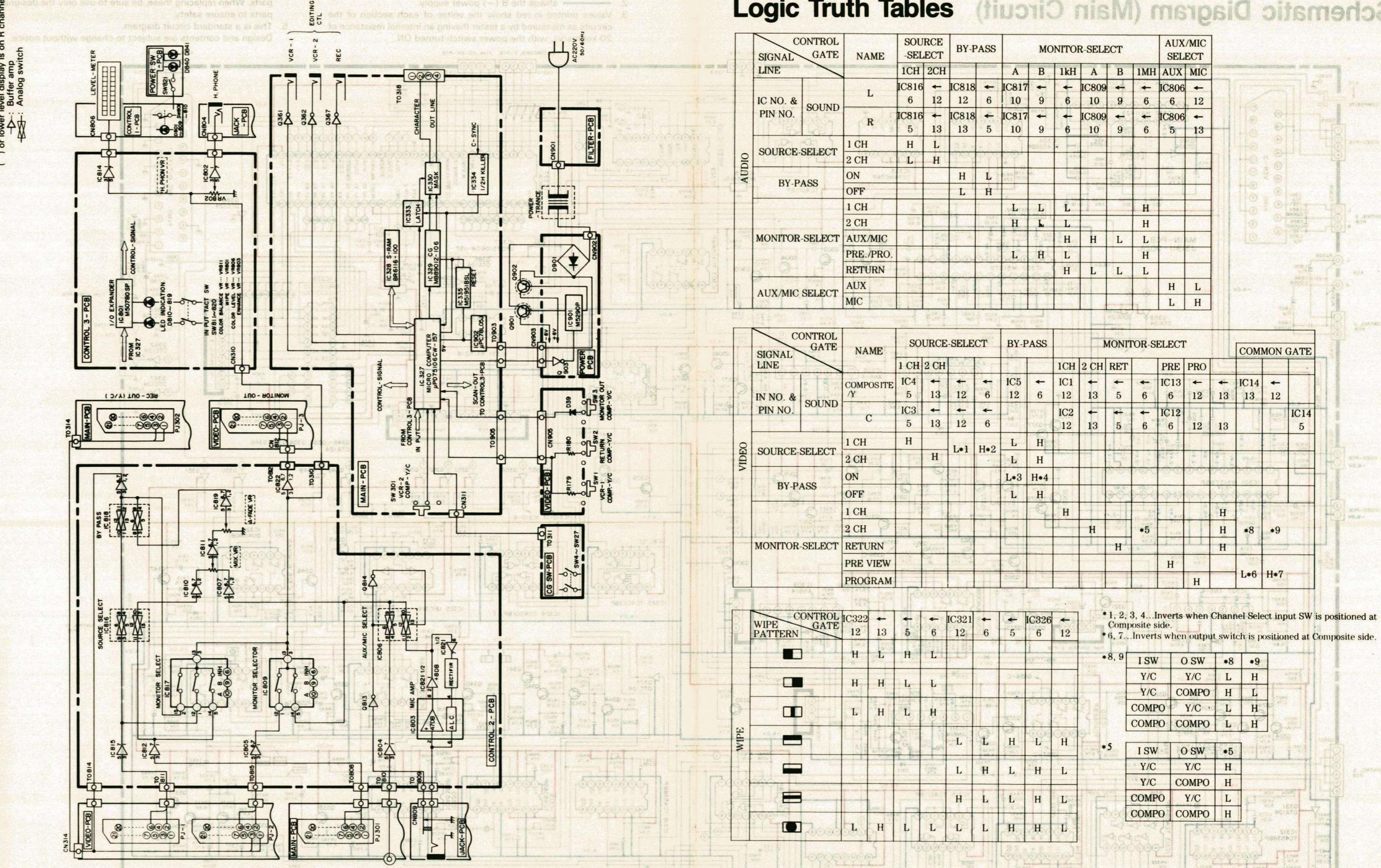
Schematic Diagram (Control Circuit)**Printed Circuit Board (Full Scale)**

■ Control-1 PC Board
■ Control-3 PC Board
■ Control-2 PC Board
■ Power Switch PC Board
■ Jack PC Board
■ Power PCB
■ Video & Power Circuits (Video & Power Circuits)

part is (+) B power source.
part is (-) B power source.
part is earth.
parts are others.



Schematic Diagram (Main Circuit)**Printed Circuit Board (Full Scale)****Main PC Board**

Block Diagram**Main PC Board Block Diagram****Video PC Board Block Diagram****Control PC Board and Power Block Diagram****Logic Truth Tables**

CONTROL SIGNAL LINE	SOURCE SELECT	NAME	BY-PASS		MONITOR-SELECT		AUDIO		AUX/MIC SELECT	
			L	R	A	B	1CH	2CH	AUX	MIC
IC NO. & PIN NO.	SOUND	IC816	↔	IC818	↔	IC817	↔	IC809	↔	IC806
		6	12	12	6	10	9	6	10	12
		IC816	↔	IC818	↔	IC817	↔	IC809	↔	IC806
		5	13	13	5	10	9	6	10	13

CONTROL SIGNAL LINE	SOURCE SELECT	NAME	BY-PASS		MONITOR-SELECT		COMMON GATE	
			1 CH	2 CH	1 CH	2 CH	RET	PRO
IN NO. & PIN NO.	SOUND	IC4	↔	IC5	↔	IC1	↔	IC13
		5	13	12	6	12	5	6
		IC3	↔	IC2	↔	IC12	↔	IC14
		5	13	12	6	12	13	12

*1, 2, 3, 4...Inverts when Channel Select input SW is positioned at Composite side.

*6, 7, 8...Inverts when output switch is positioned at Composite side.

• 8, 9	I SW	O SW	• 8	• 9
	Y/C	Y/C	L	H
	Y/C	COMPO	H	L
	COMPO	Y/C	L	H
	COMPO	COMPO	L	H

• 5	I SW	O SW	• 5	
	Y/C	Y/C	H	
	Y/C	COMPO	H	
	COMPO	Y/C	L	
	COMPO	COMPO	H	

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