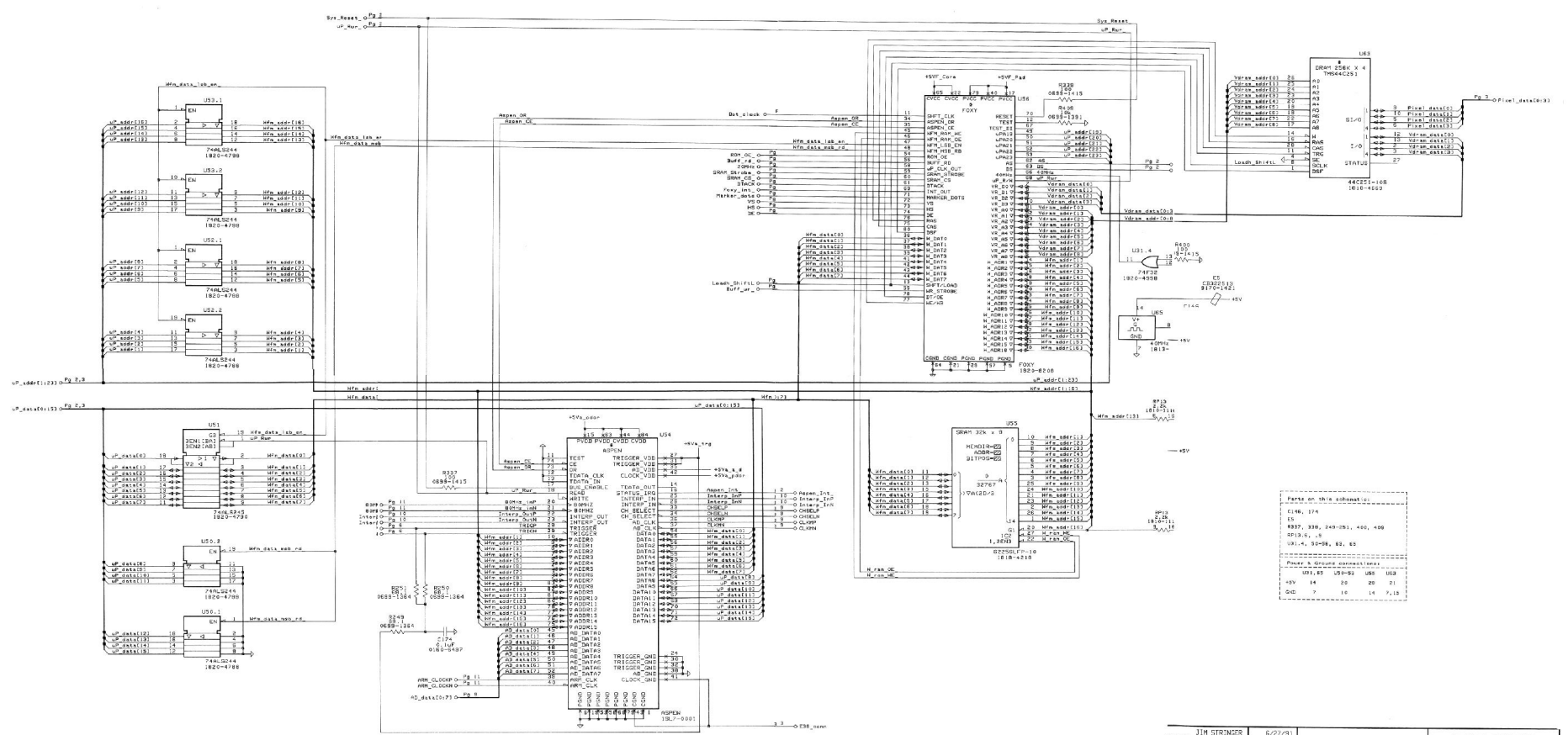


HP54601A DSO Circuits

Best possible circuit reassembly from many smaller scans
that I didn't have any control over.

Sorry, no diagram for the power supply was available.
The display diagram may not be correct, mine is quite different,
but it wasn't complex to fix if you are used to TV circuits.

Page		Page	
1	This page	10	Sampler
2	Waveform Bus	11	Time Interpolator
3	Processor & Memory	12	80MHz Clock / Arm Clock
4	Analogue Control	13	Display / Video Board
5	Vertical System 1	14	Block Diagram
6	Vertical System 2	15	
7	Trigger	16	
8	DAC	17	
9	Power Distribution	18	



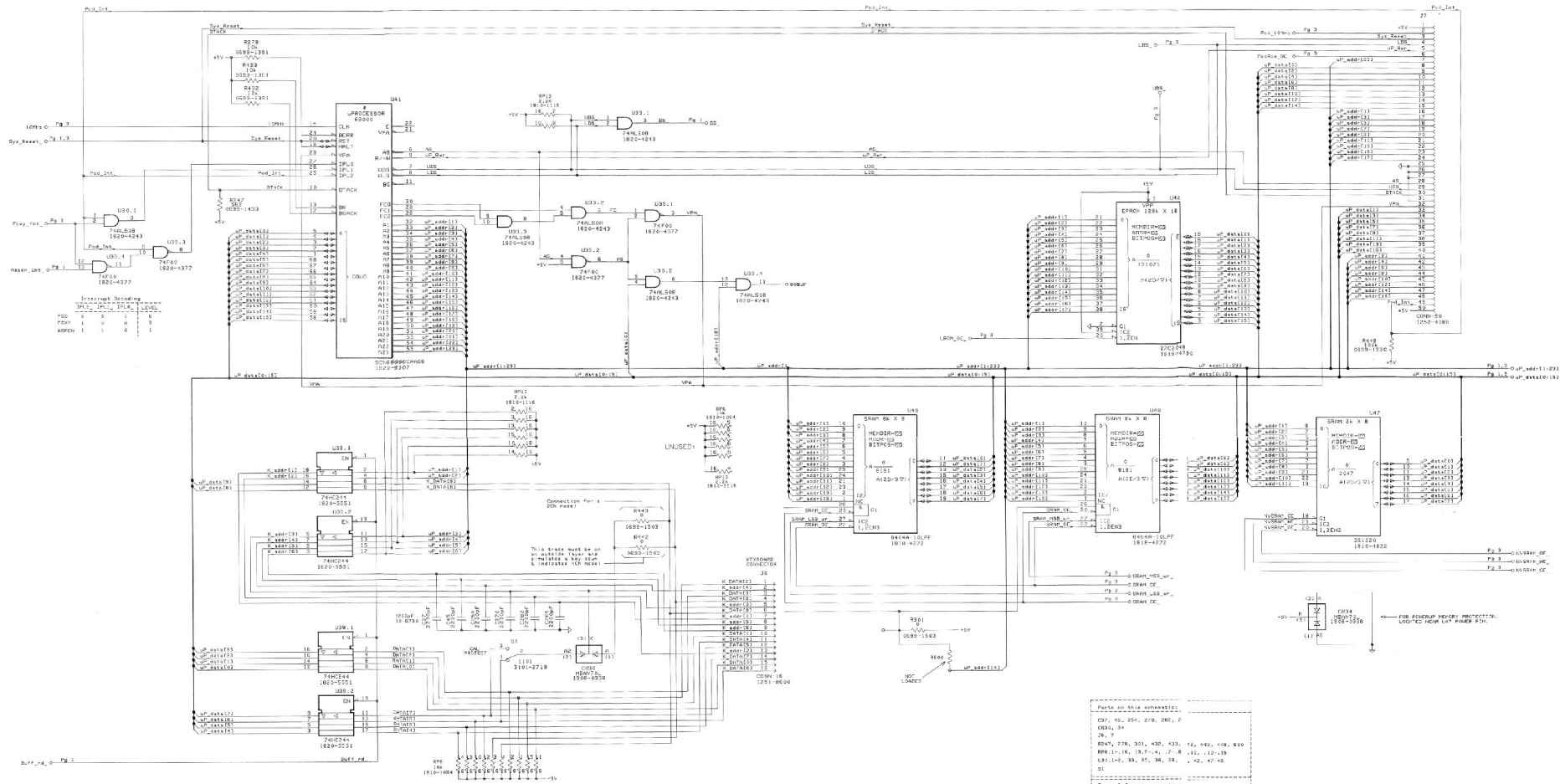
Parts in this subpanel:

C146	174
CS	
8997	398, 249-251, 450, 450
2078	5, 5
U1,4	50-58, 82, 85

Power & ground connections:

U1,4	50-58, 82, 85
18V	14, 20, 20, 21
0V	7, 10, 14, 7, 18

REV	REVISIONS	APPROVED	DATE
A	AS ISSUED	JG	



Parts as this assembly:
 CPU, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

DESIGNED BY	JIM STRONGER	DATE	6/27/81
SKETCHED BY		TITLE	PROCESSOR & MEMORY
WORKED BY		REVISED BY	
DATE		REVISED	



HENLETT
PACKARD

HPART NUMBER

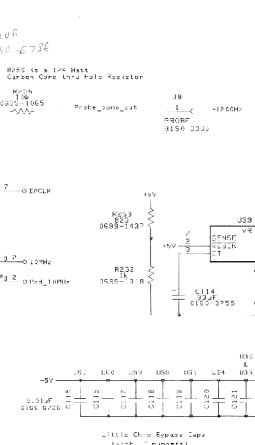
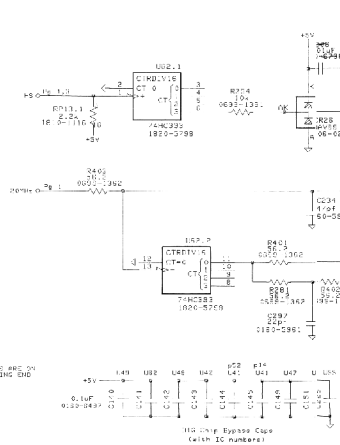
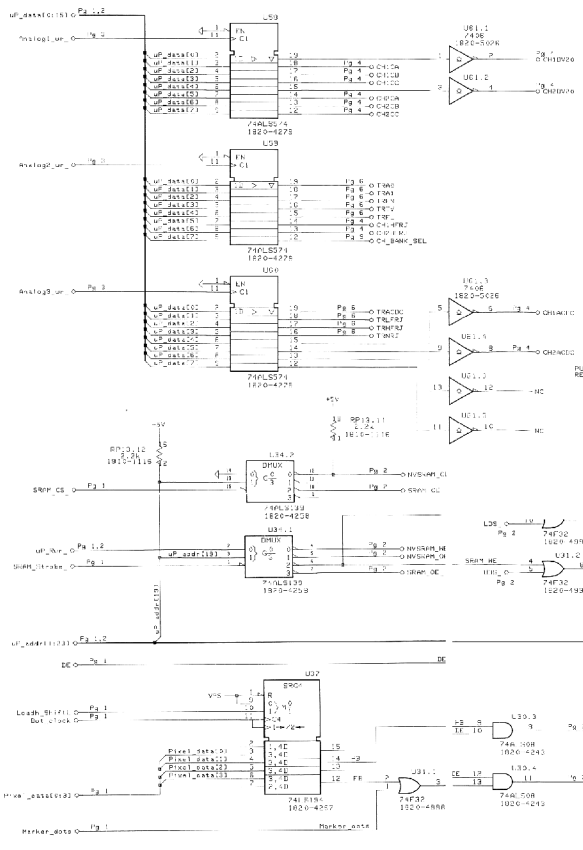
REVISED BY: JG
 DATE: 2/11/81
 D-54600-66501-3

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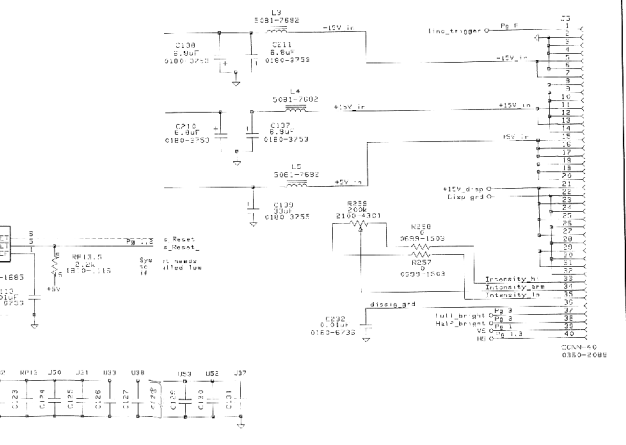
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page 2 upper

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page 3 upper

sheet 3 of 4
page 4 upper



REVISIONS										D-54600-66501-3	
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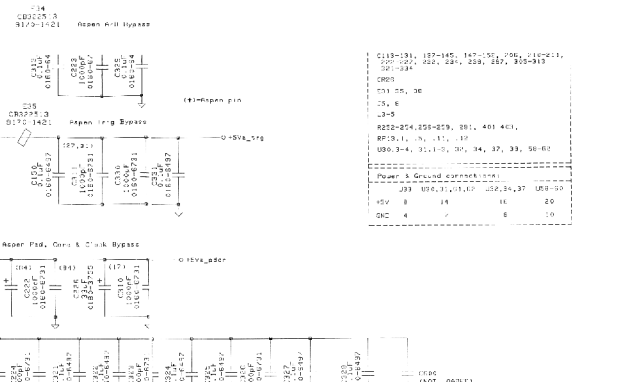
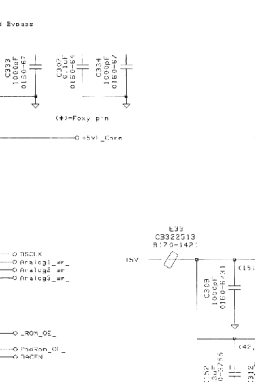
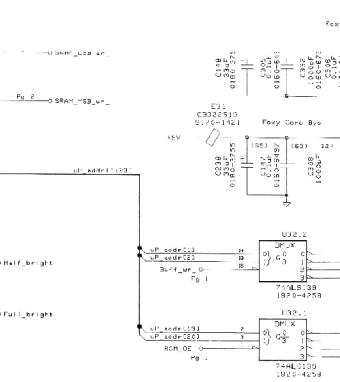


sheet 3 of 4
page 1 lower

sheet 3 of 4
page 2 lower

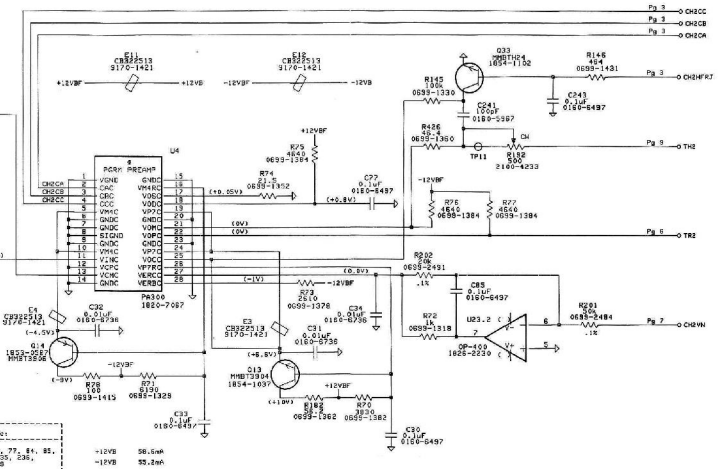
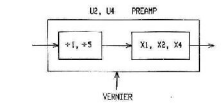
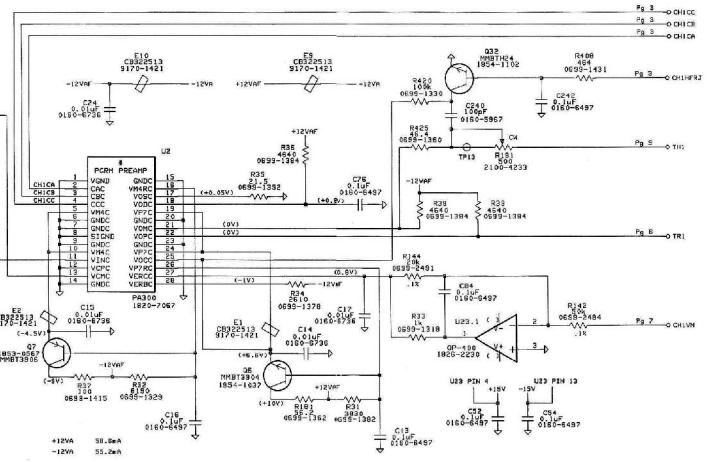
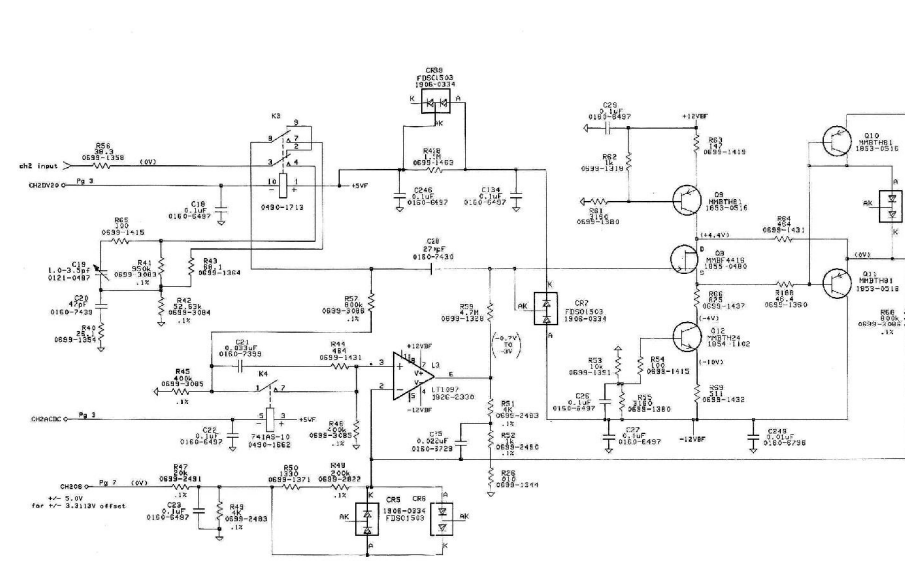
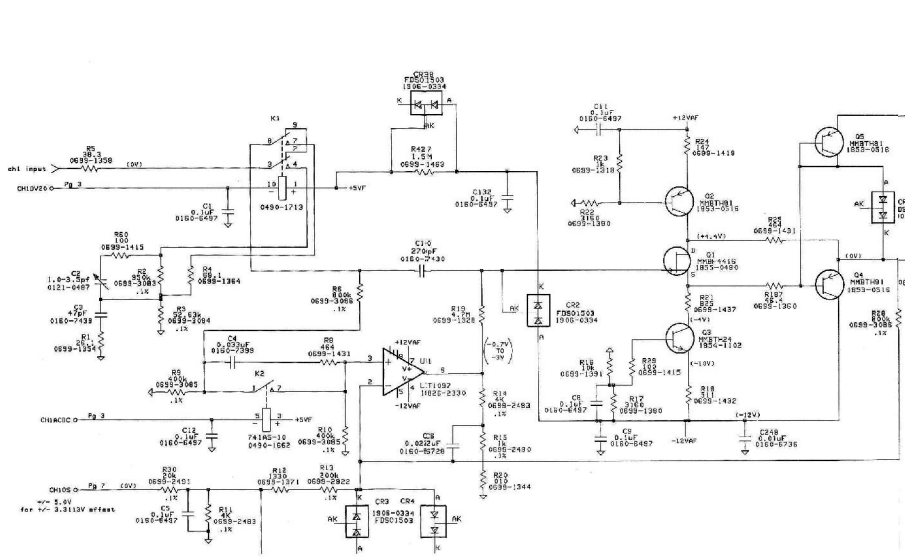
sheet 3 of 4
page 3 lower

sheet 3 of 4
page 4 lower



DATE	REV	BY	DESCRIPTION	DATE
ANALOG CONTROL REGS, DECODE, & POWER				
DESIGNED				DATE
REVIEWED BY				DATE
SUPPLIER'S ING.	SOLE	SHEET	3 OF 11	D-54600-66501-3





Parts on this schematic:

C1-6, 8-24, 28, 31, 32, 77, 81, 85, 242-243, 244, 248, 249

CH-8, 28, 28

C1-4, 9-12

K1-4

Q1-14, 22, 23

R1-6, 8-27, 28-28, 103, 104-105, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 245, 246, 438, 439, 442-443

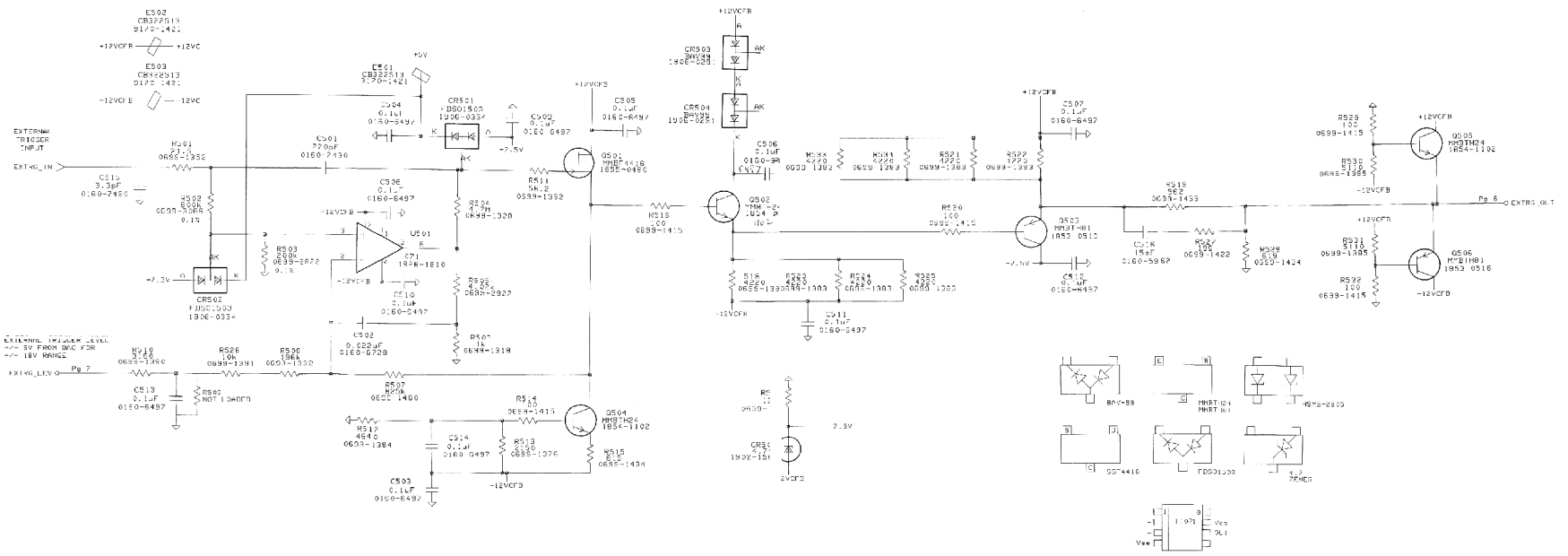
U1-4, 28

DRAWN BY	JIM STRINGER	DATE	6/27/61
ENGINEER			
RELEASE TO PROB.		TITLE	VERTICAL SYSTEM
			HEET 4 OF 11



FORM 100

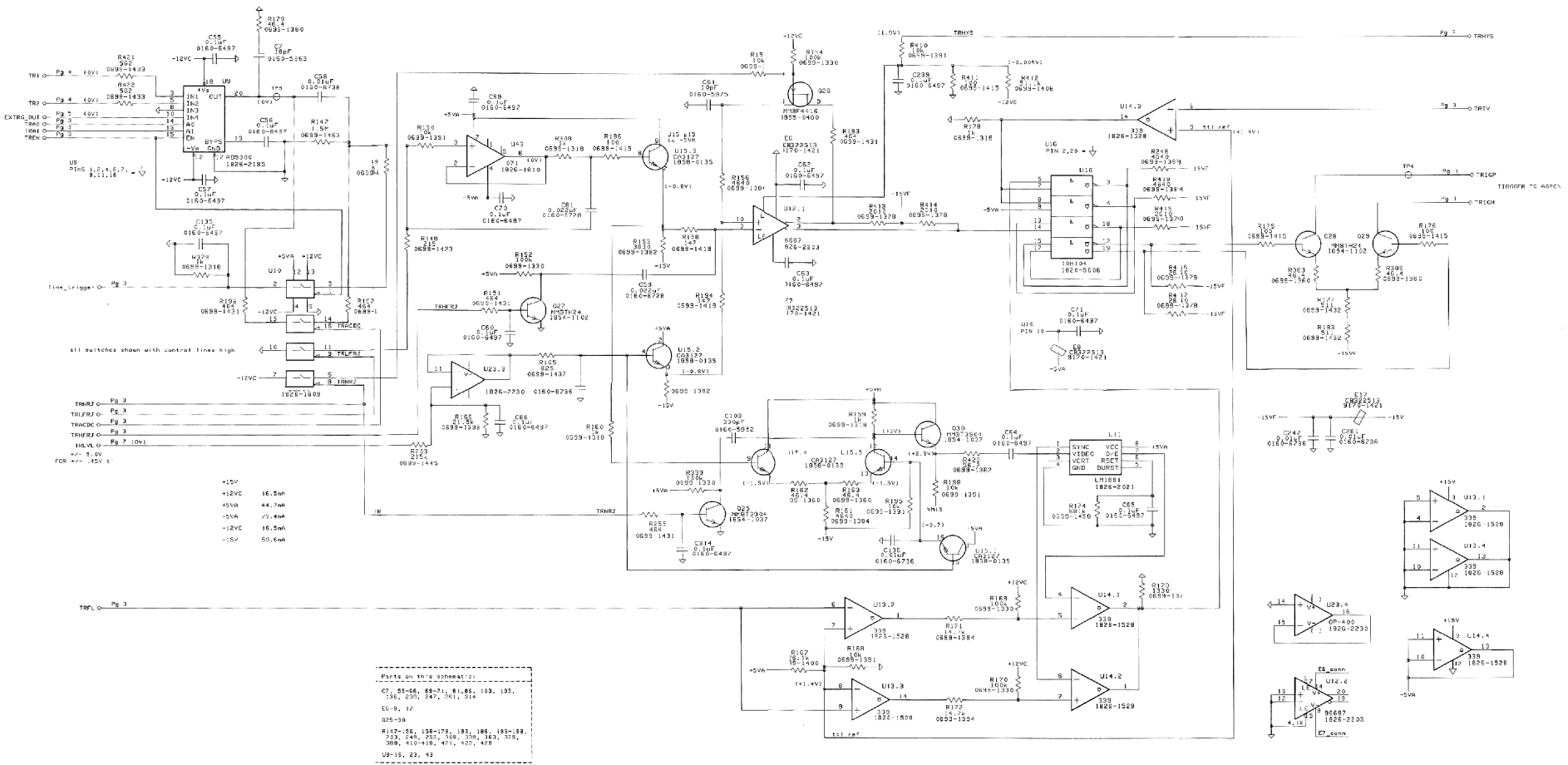
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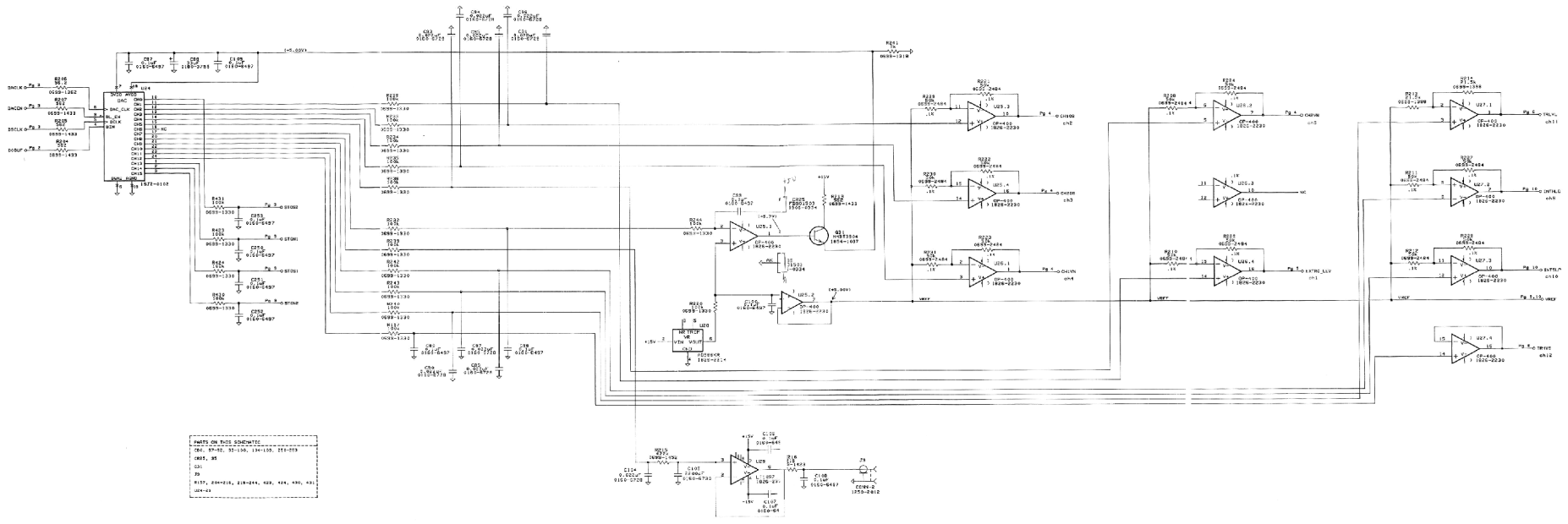
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 ENGINEER:



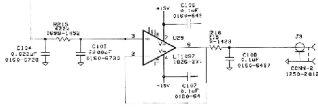
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										JIS	



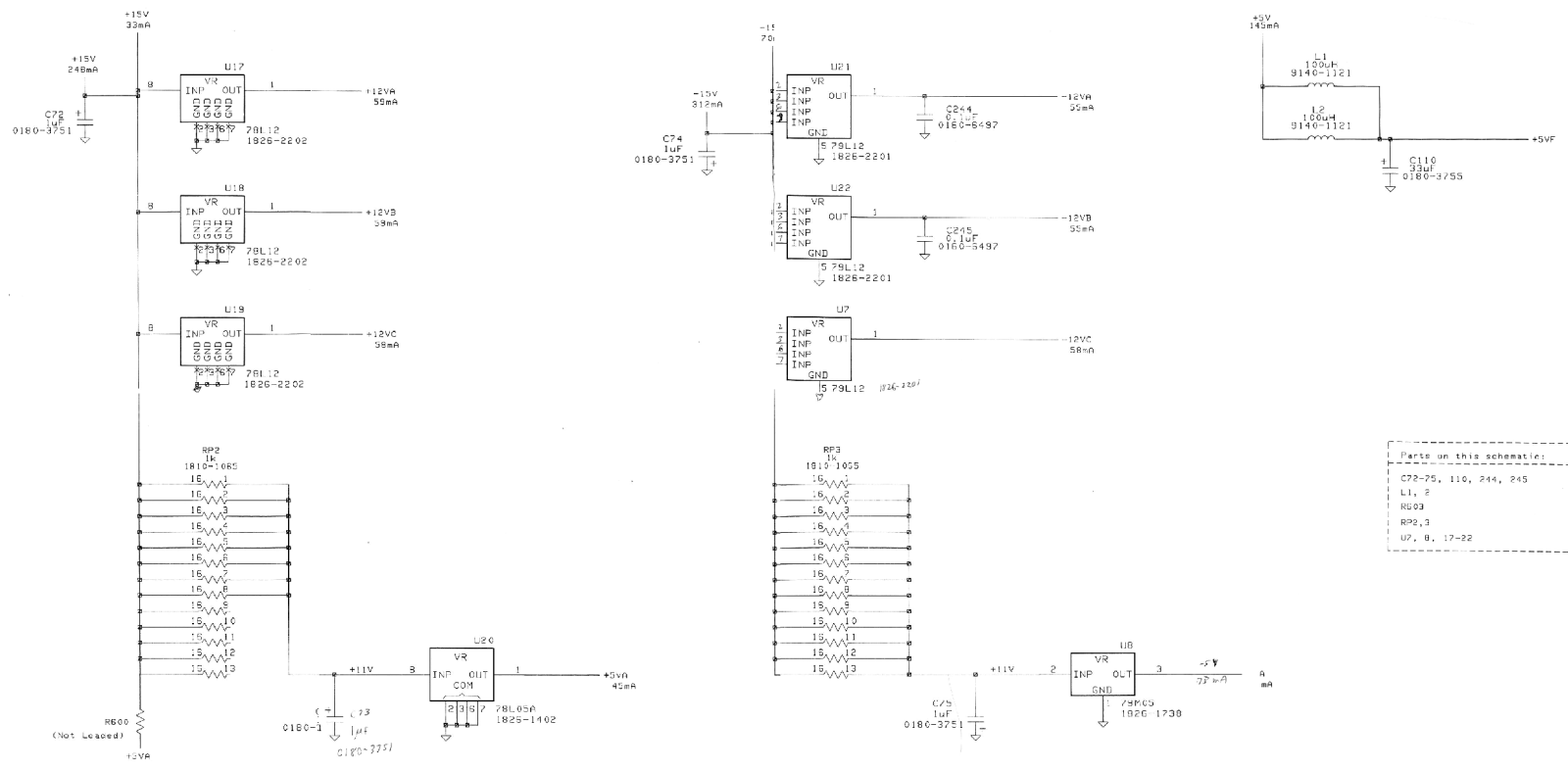
DRAWN BY: 717 STRINGER	DATE: 8/27/71	TRIGGER	HEWLETT PACKARD
ENGINEER:			
RELEASE TO: PRICE:	TITLE:	PRINT NUMBER:	
		D-54600-66501-3	



PARTS ON THIS SHEET
 15V 15V
 10K 10K
 100K 100K
 1M 1M
 0.01 0.01
 0.1 0.1
 1 1
 OP07 OP07
 OP27 OP27
 OP29 OP29
 LM311 LM311



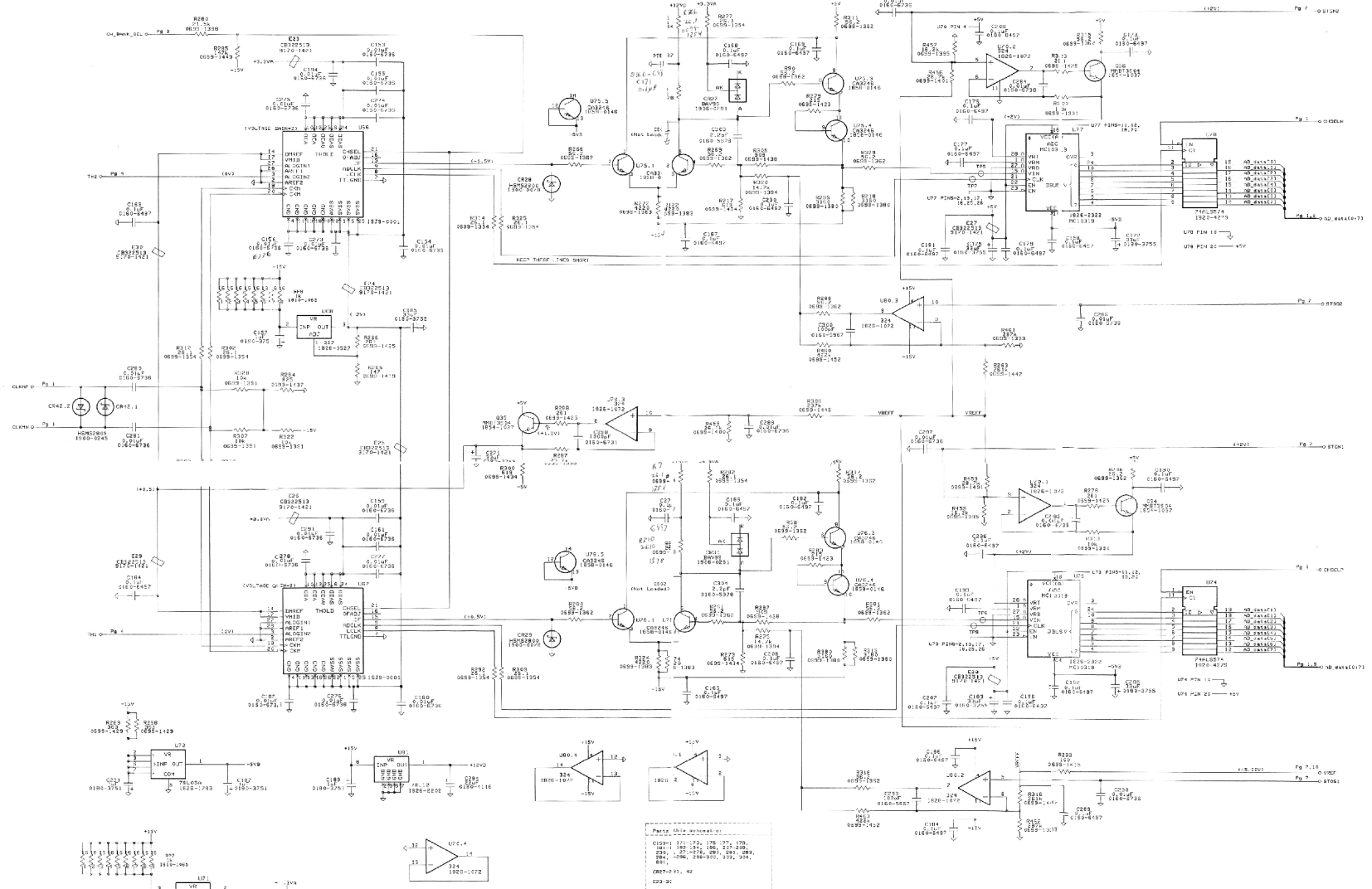
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45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	R	AS ISSUED	JS	



Parts on this schematic:
 C72-75, 110, 244, 245
 L1, 2
 RS03
 RP2, 3
 U7, 8, 17-22

DESIGNED BY	JIM STRINGER	DATE	6/27/65	POWER	HEWLETT PACKARD
CHECKED BY					
WORK TO BE DONE		TITLE		PART NUMBER	
FORBES INC.		SCALE	SHEET 8 OF 11	D-54600-66501-3	

REVISED										DATE		
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14	15	16	17	18	19	20	21	22	23	24	25	26
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A AS ISSUE										DATE		



Parts list information:

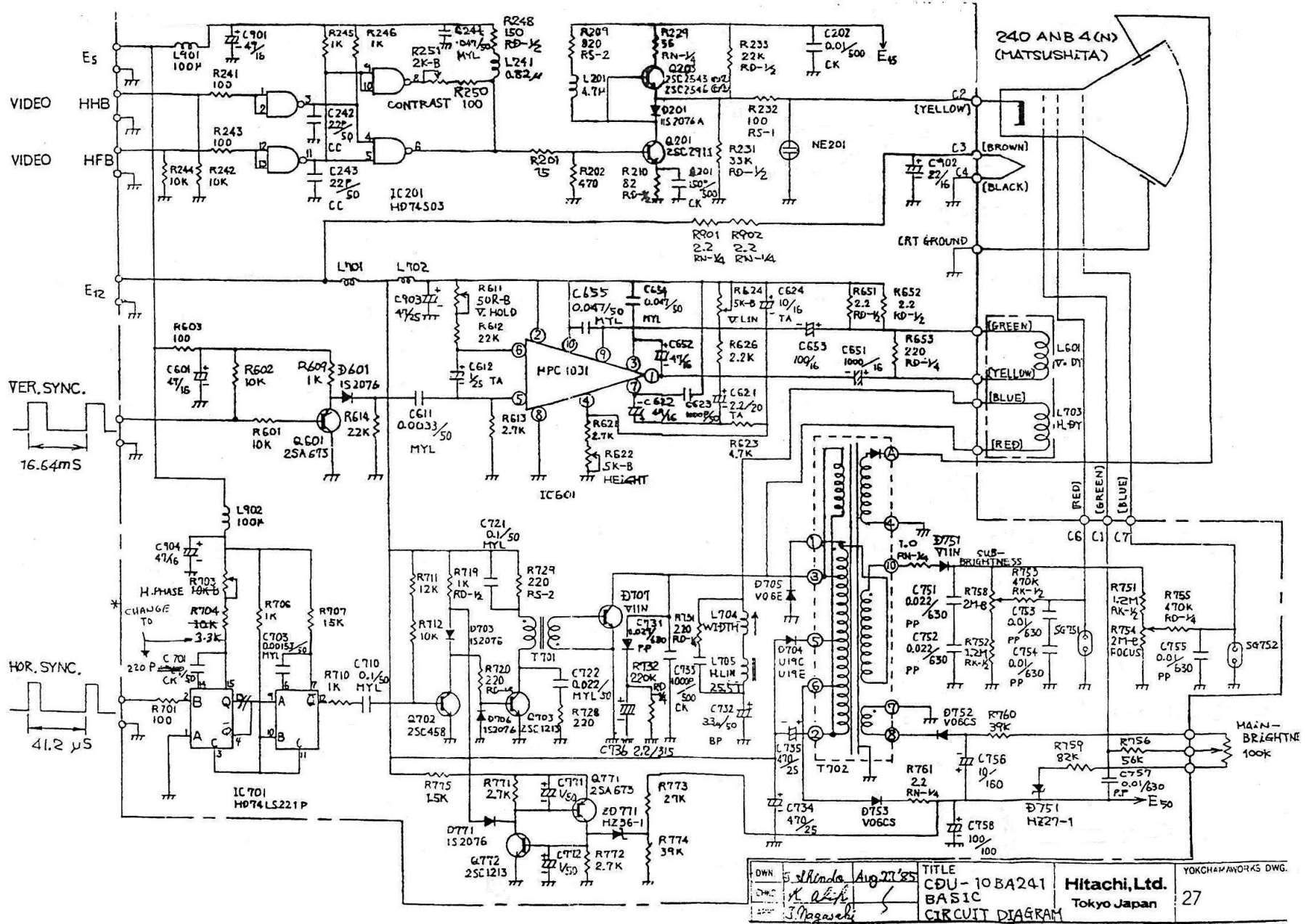
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C100-5	100-100	100-100	100-100
C100-6	100-100	100-100	100-100
C100-7	100-100	100-100	100-100
C100-8	100-100	100-100	100-100
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C100-14	100-100	100-100	100-100
C100-15	100-100	100-100	100-100
C100-16	100-100	100-100	100-100
C100-17	100-100	100-100	100-100
C100-18	100-100	100-100	100-100
C100-19	100-100	100-100	100-100
C100-20	100-100	100-100	100-100
C100-21	100-100	100-100	100-100
C100-22	100-100	100-100	100-100
C100-23	100-100	100-100	100-100
C100-24	100-100	100-100	100-100
C100-25	100-100	100-100	100-100
C100-26	100-100	100-100	100-100
C100-27	100-100	100-100	100-100
C100-28	100-100	100-100	100-100
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C100-30	100-100	100-100	100-100
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C100-97	100-100	100-100	100-100
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DESIGN BY	JIT SIK/MCH	DATE	1-27-79
ENGINEER			
APPROVED BY		TITLE	
CORPORATE ENG.		SHEET	9 of 11



SAMPLER-A/D

D-54600-66501-3



OWN	S. Honda	Aug 27 '85	TITLE	CDU - 108A241	Hitachi, Ltd. Tokyo Japan	YOKOHAMA WORKS DWG. 27
CHK	K. Oishi		BASIC			
	J. Nagasaki		CIRCUIT DIAGRAM			

