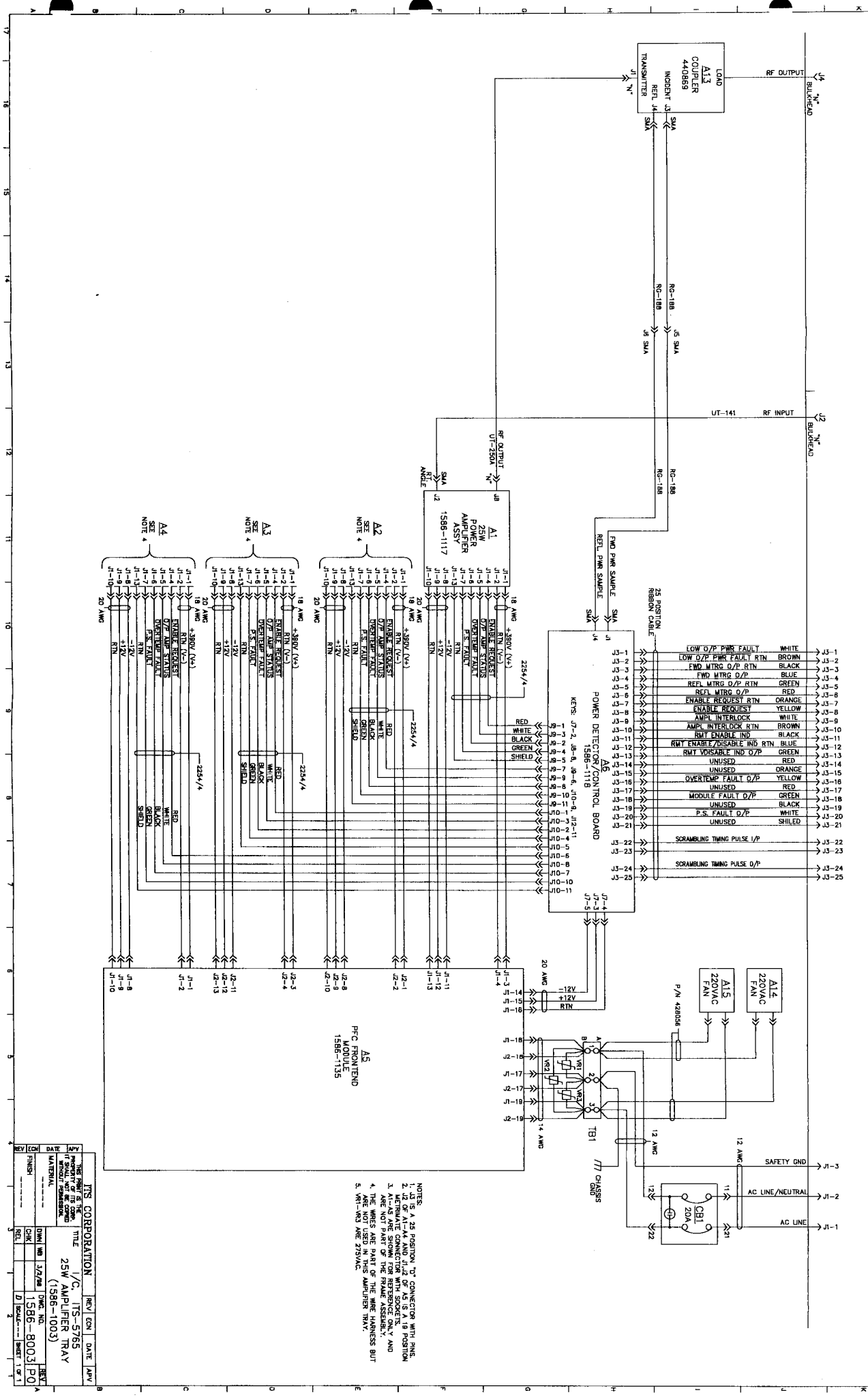
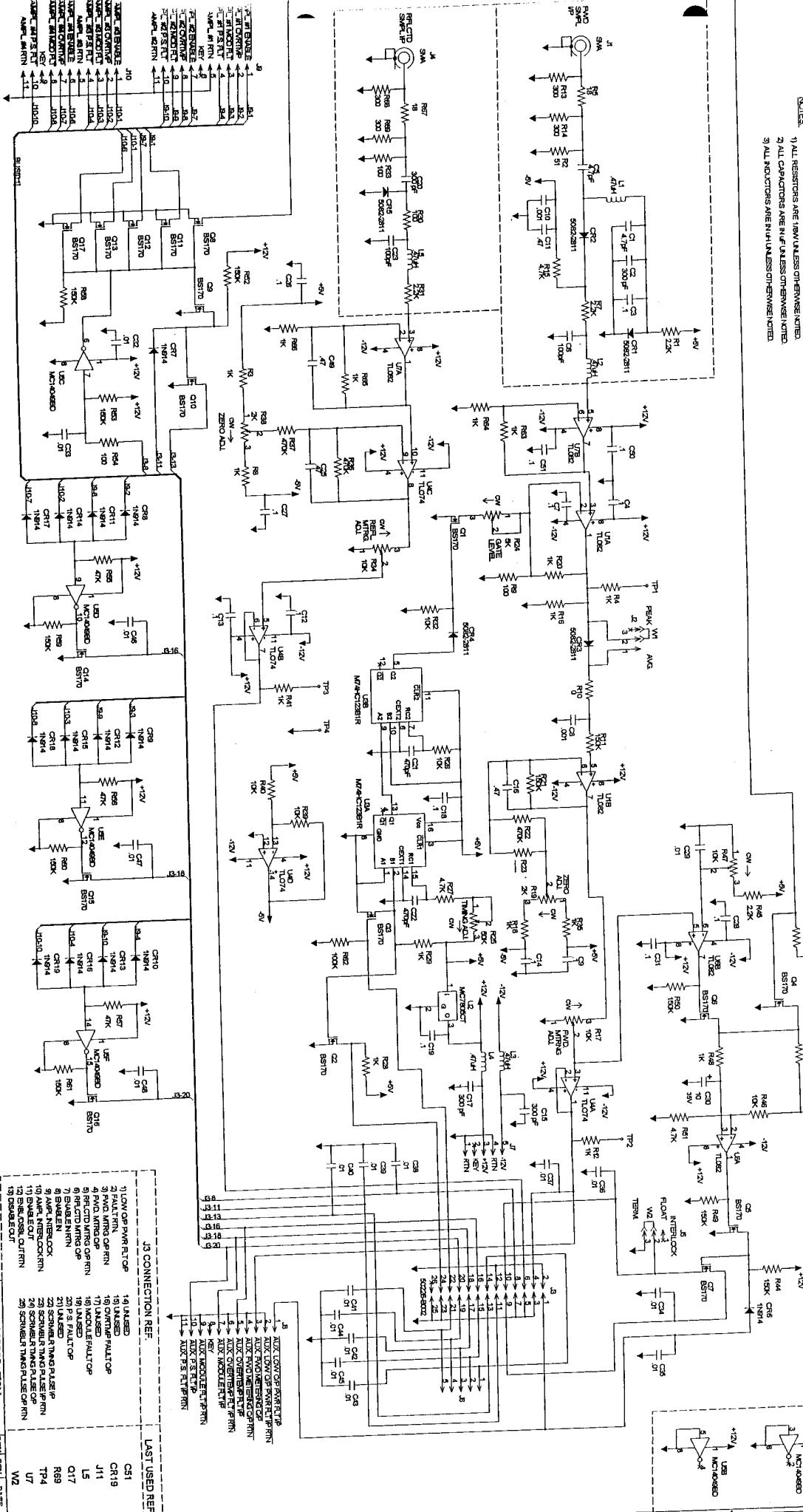




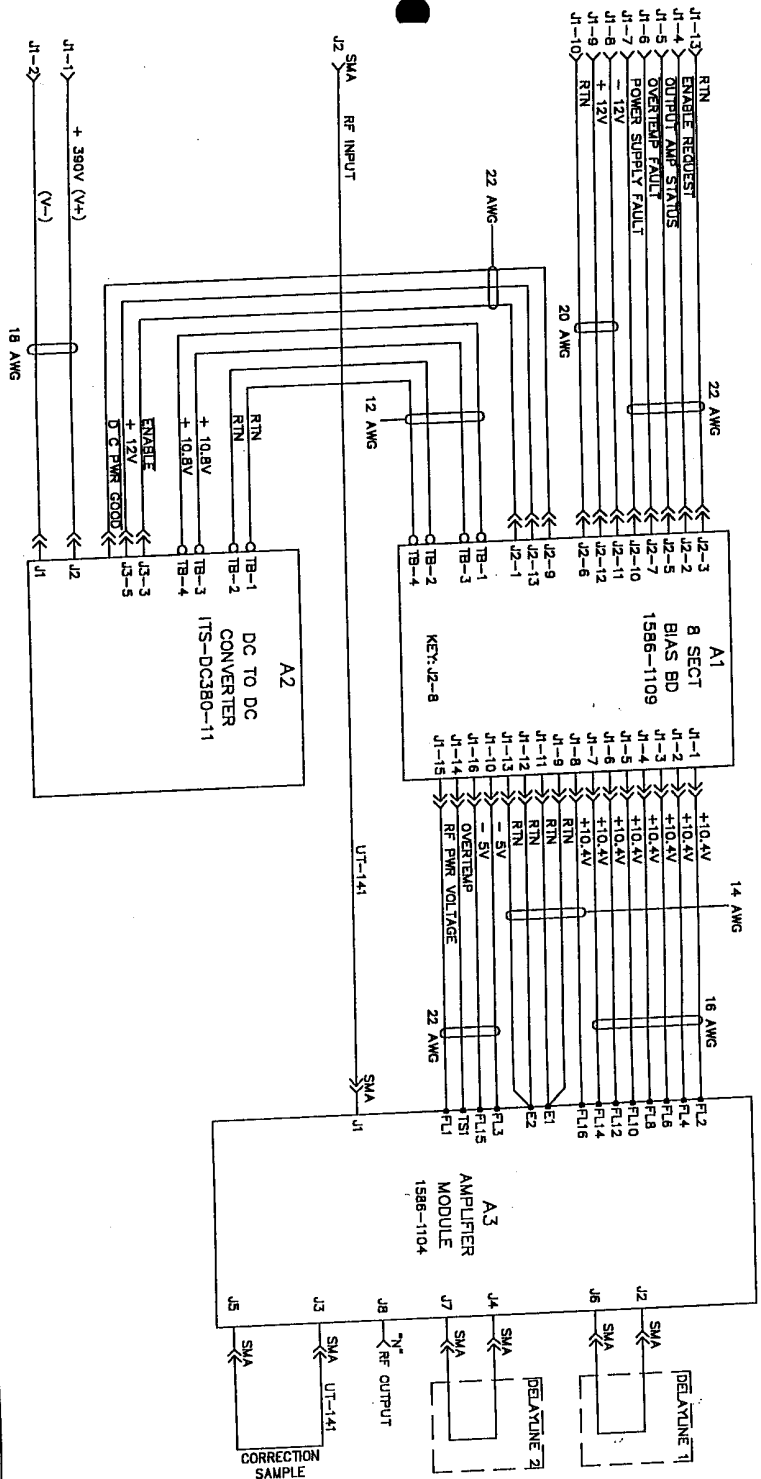
NOTES:
 1. J3 IS A 25 POSITION D/C CONNECTOR WITH PINS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25.
 2. J3 IS A 25 POSITION D/C CONNECTOR WITH PINS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25.
 3. ALL ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE FRAME ASSEMBLY.
 4. ARE NOT USED IN THIS AMPLIFIER TRAY.
 5. VBI-WS ARE 275VAC.

REV		DATE		BY	
1	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
2	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
3	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
4	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
5	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
6	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
7	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
8	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
9	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
10	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
11	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
12	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
13	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
14	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
15	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
16	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
17	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
18	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
19	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
20	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
21	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
22	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
23	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
24	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003
25	1586-1003	1586-1003	1586-1003	1586-1003	1586-1003

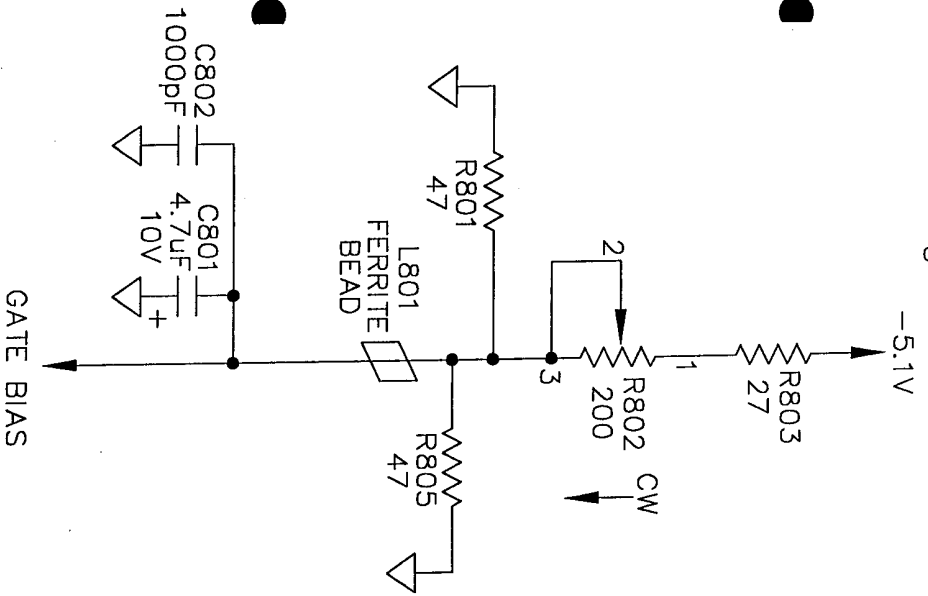
- NOTES:
- 1) ALL RESISTORS ARE 100W UNLESS OTHERWISE NOTED
 - 2) ALL CAPACITORS ARE IN P.F. UNLESS OTHERWISE NOTED
 - 3) ALL POLARITIES ARE IN P.F. UNLESS OTHERWISE NOTED



REV	DATE	BY	CHK	APP	DESCRIPTION
1	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
2	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
3	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
4	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
5	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
6	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
7	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
8	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
9	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
10	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
11	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
12	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
13	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
14	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
15	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
16	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
17	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
18	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
19	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
20	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
21	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
22	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
23	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
24	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
25	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
26	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
27	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
28	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
29	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.
30	10/1/78	WZ	WZ	WZ	POWER DETECTOR/CONTROL BD.

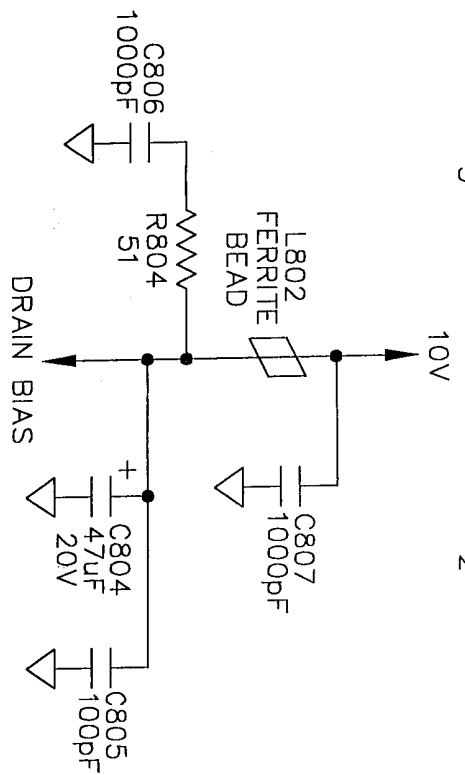


REV				DATE				APV			
FINISH				DATE				APV			
REL				DATE				APV			
CHK				DATE				APV			
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CHK				DATE				APV</			



NOTES:

- 1) ALL RESISTORS ARE 1/8W, 5% & IN VALUES OF OHMS UNLESS OTHERWISE NOTED.
- 2) IF 200 OHM POTS ARE NOT AVAILABLE, 100 OHM POTS MAY BE USED. HOWEVER, RESISTOR VALUES MAY HAVE TO CHANGE (SEE NOTE 2).
- 3) TO ACCOUNT FOR VARIATIONS IN THE FL300 & FL200, R803 MAY BE RAISED TO INCREASE DRAIN CURRENT (TYP 150 OHM) OR LOWERED TO DECREASE DRAIN CURRENT (TYP 27 OHM).



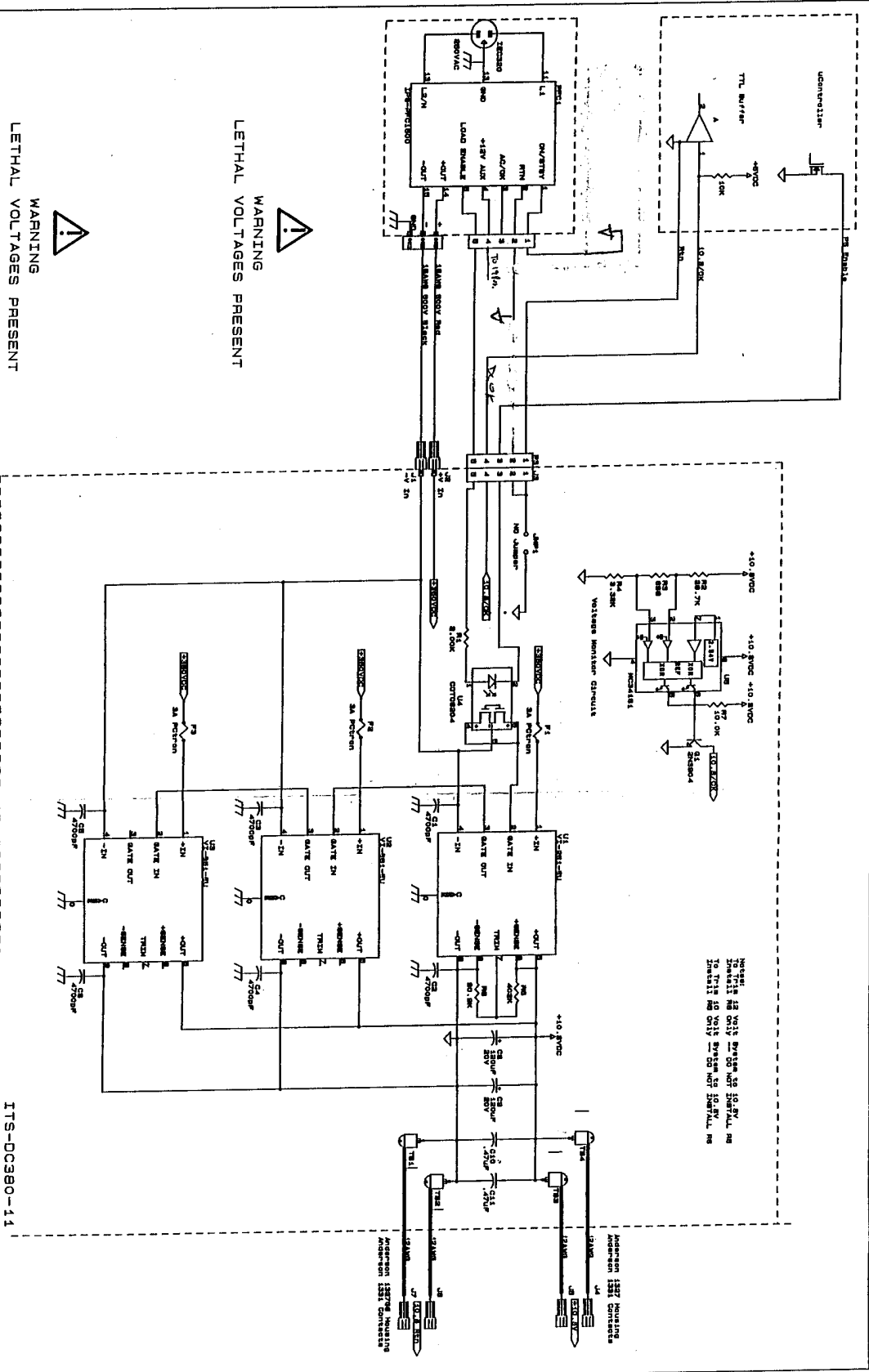
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCH, AMP DAUGHTER BOARD, LEFT SIDE	
DATE		DWG. NO.	
MATERIAL		1512-3110	
FINISH		REV	
---		1	
REV	ECN	REL	BKW
---	---	---	---

ADDED NOTES & pF TO
C802, C805-C807. (GK)

1	8940	4/9/97
---	------	--------

REV	ECN	DATE	APV
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[illegible]



LETHAL VOLTAGES PRESENT

WARNING
LETHAL VOLTAGES PRESENT

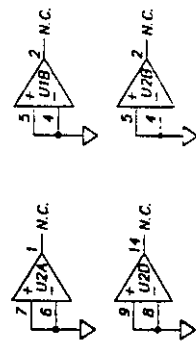
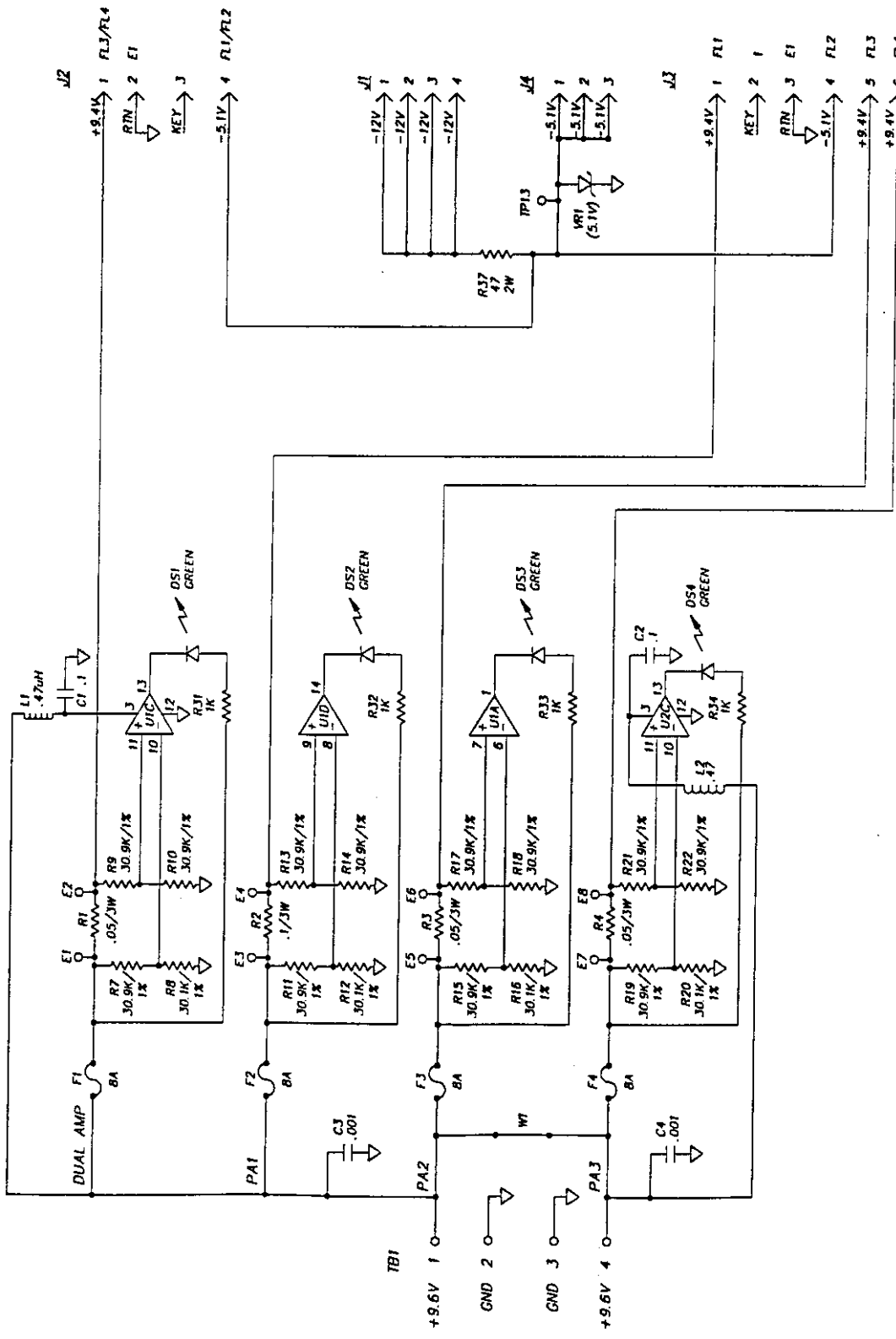
PROTOTYPE

Integrated Power Solutions Inc.	
23800 Commerce Park	
Beechmond, Ohio 44122	
71512	
ITM Power Supply Systems	
Size Documents Number	217-00360-11
DATE	06/26/97
BY	1

JTS CORPORATION						REV	EDN	DATE	PAY
TITLE									
PFC, FRONT END									
MODULE									
CORE NO.									
DRAWN BY	DATE	NO.				REV			
GSK	2/20/89	1586	8136			0			
REL	12		REVISION	SHEET		OF			
	2		1		1				



0101 WAS FL1120MK. NS					
2		404C			
CHANGED R108 FROM 150 TO 100. R208 & R209 FROM 7.47. ADDED R207 & R207.					
RCB					
1		3/6/94		DAU	
REV	EON	DATE		APV	
FINISH					
----- MATERIAL					
THIS SHEET IS THE PROPERTY OF ITS CORP. IF SHALL NOT BE COVERED BY THIS CORPORATION.					
ITS CORPORATION					
TITLE					
SCHEMATIC 25W GASSET AMPL BD (1500-1164)					
DWG NO.		DATE NO.			
CHK	SL	3/7/94			
DWN	DAU	3/6/94		1500-3164 2	
REL	DAU	3/6/94		SCALE 1:1	
SHEET 1 OF 1		REV			



NOTE: ALL RESISTORS ARE 1/4W 5% UNLESS NOTED.

REV	ECN	DATE	APV
1	---	9/8/93	CAR
2	---	9/8/93	CAR
3	---	9/8/93	CAR
4	---	9/8/93	CAR
5	---	9/8/93	CAR

1	3908	1-5-94	DPK
2	3908	1-5-94	DPK
3	3908	1-5-94	DPK
4	3908	1-5-94	DPK
5	3908	1-5-94	DPK

1	3908	1-5-94	DPK
2	3908	1-5-94	DPK
3	3908	1-5-94	DPK
4	3908	1-5-94	DPK
5	3908	1-5-94	DPK

1	3908	1-5-94	DPK
2	3908	1-5-94	DPK
3	3908	1-5-94	DPK
4	3908	1-5-94	DPK
5	3908	1-5-94	DPK

THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.

JTS CORPORATION

TITLE: SCH. BIAS PROTECTION BD. 4 SECTION (1500-3114)

REV 1

DATE 9/8/93

APV CAR

ECN 1

REV 1

DATE 9/8/93

APV CAR

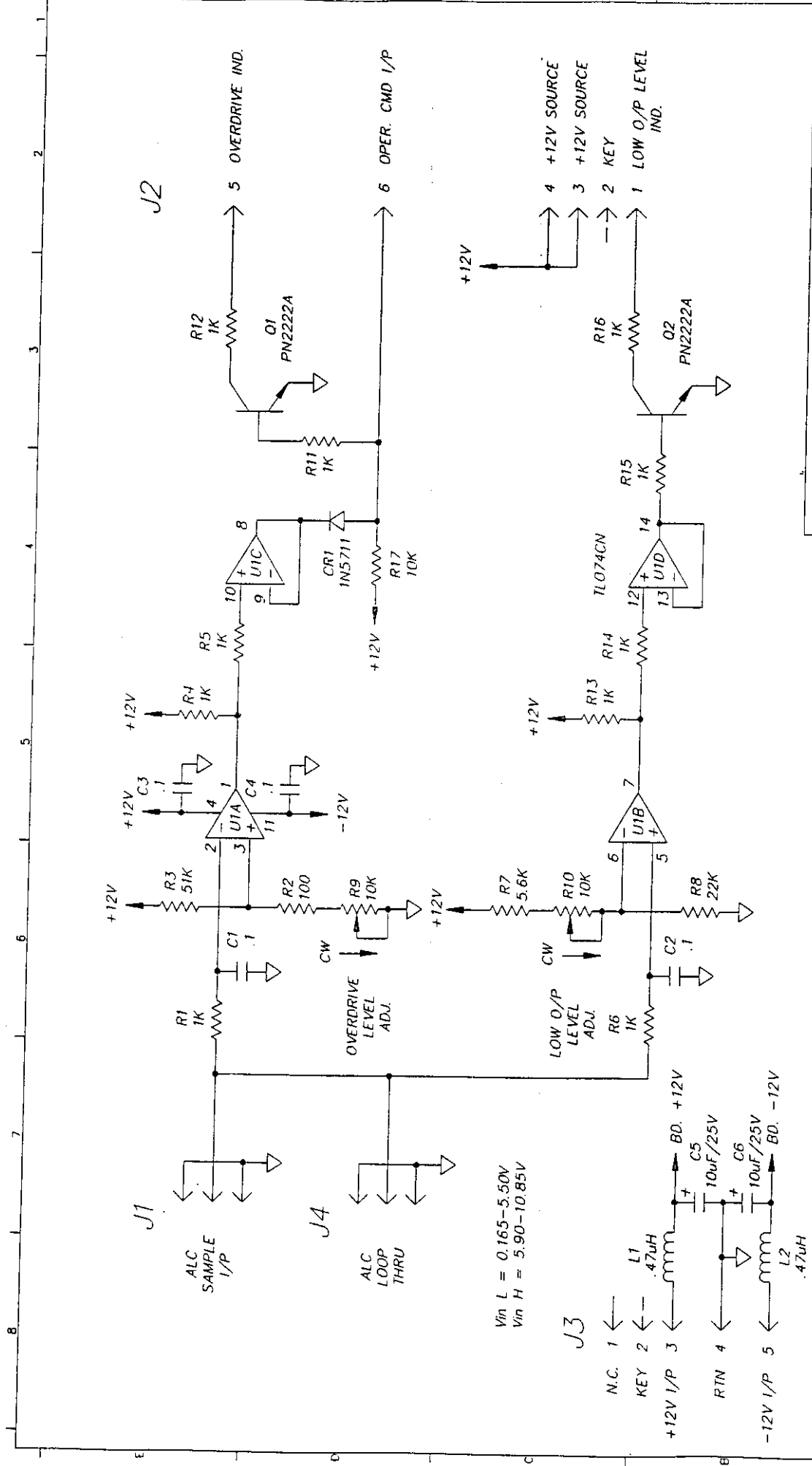
ECN 1

REV 1

DATE 9/8/93

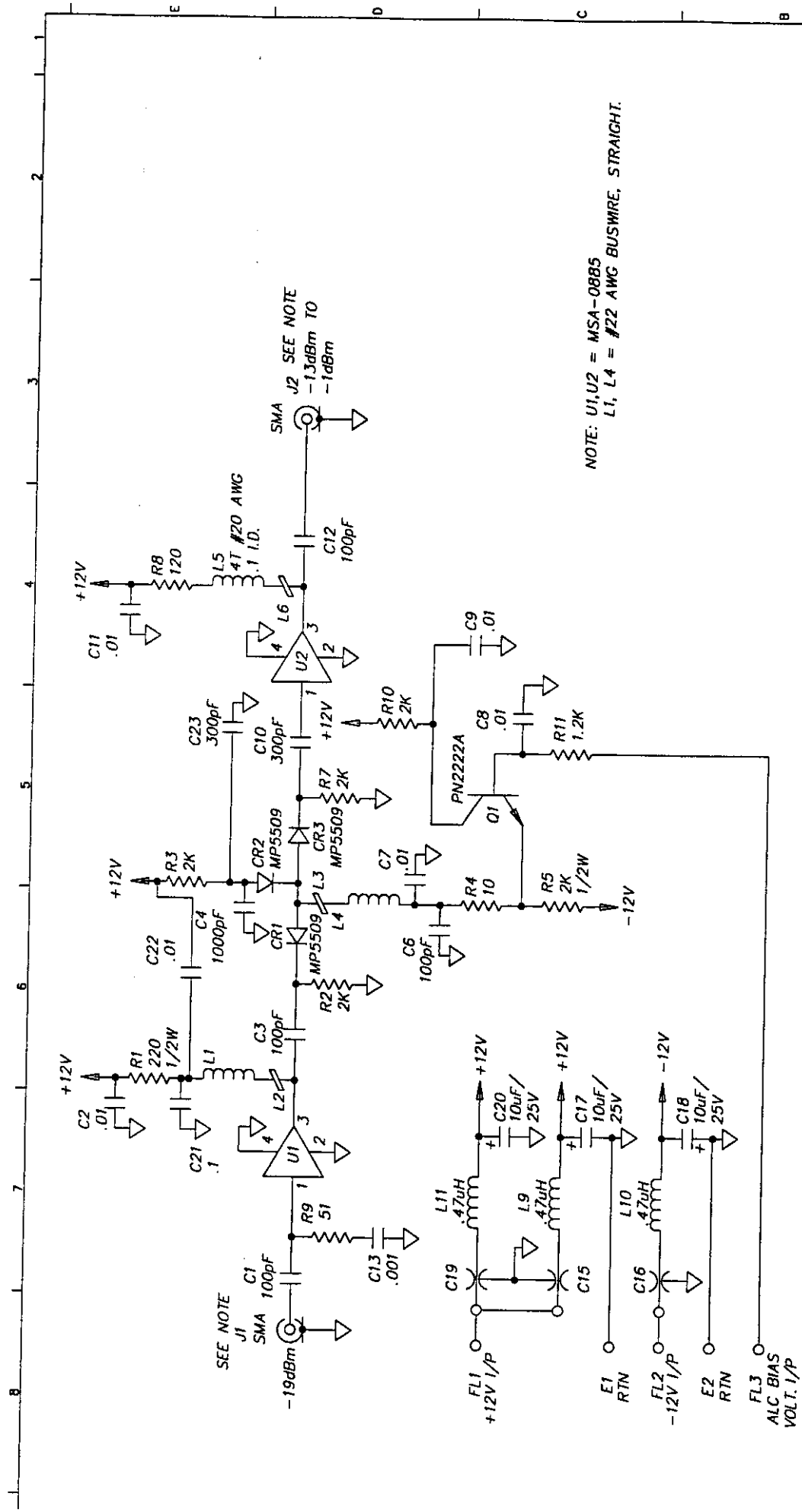
APV CAR

ECN 1



THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
MATERIAL			
FINISH			
DWN JCM 10-23-91			
DWG. NO. 1132-3501			
REV 1132-3501			
REV 1132-3501			

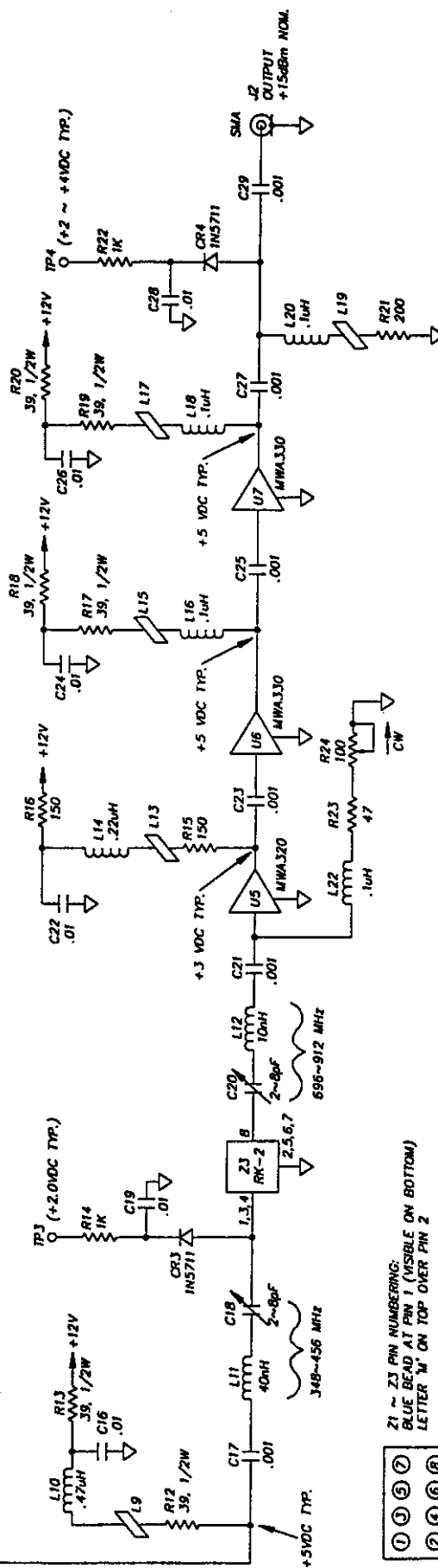
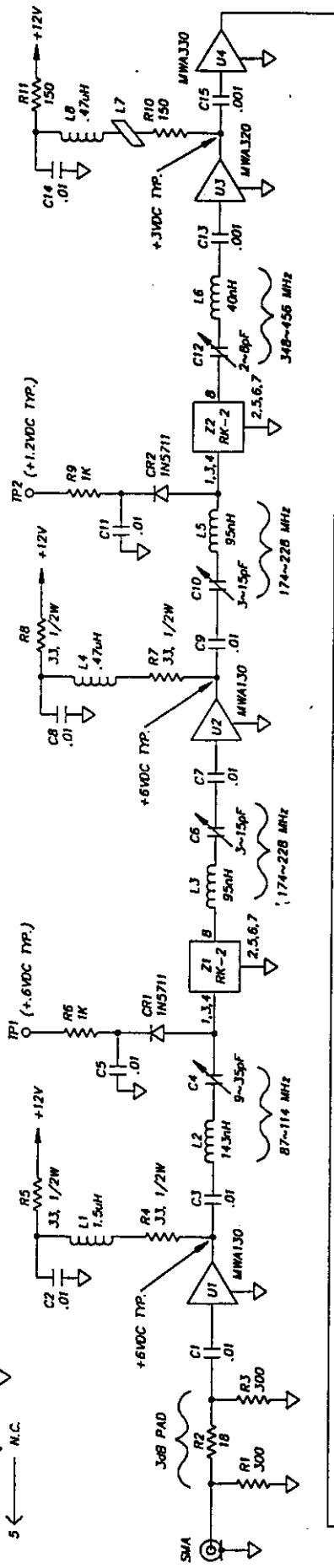
ITS CORPORATION			
TITLE			
SCHEMATIC-			
ALC FAULT SENSE BD.			
(1132-1501)			
REV			
ECN			
DATE			
APV			



ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
MATERIAL				SCHEMATIC- AMPL./ ATTENUATOR MODULE, MMDS (1132-1509)			
FINISH				DWG. NO. 1132-3509			
REV				REV			
1				1			
JWC				JCM			
4/6/95				11/14/91			
APV				JCM			
1				11/14/91			
1000				JCM			
1				11/14/91			
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J3
1 ← N.C.
2 ← KEY
3 ← +12V
4 ← +12V RTN
5 ← N.C.

BOARD +12V
L21 .47uH
C30 10uF/35V

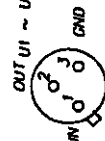


21 ~ Z3 PIN NUMBERING:
BLUE BEAD AT PIN 1 (VISIBLE ON BOTTOM)
LETTER 'W' ON TOP OVER PIN 2



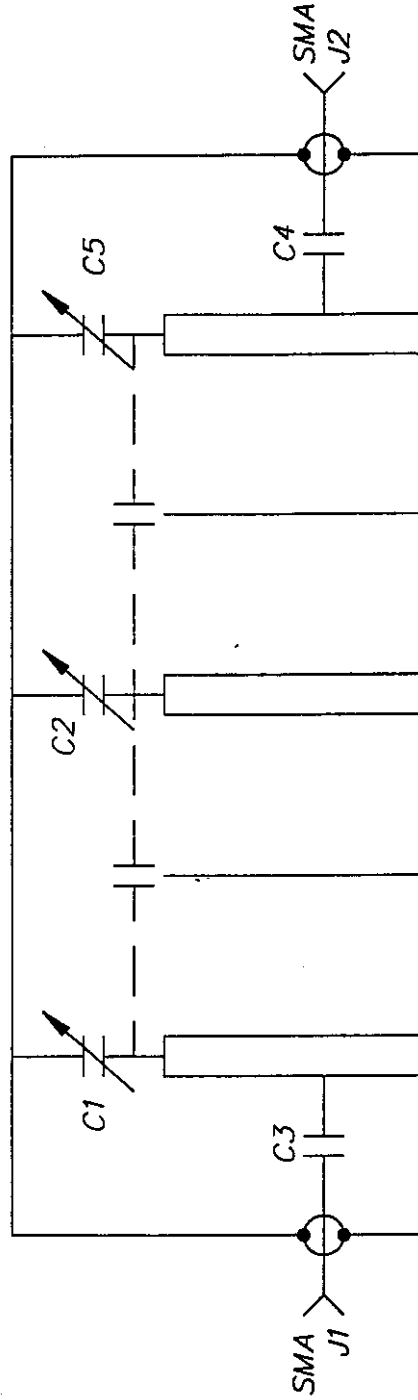
BOTTOM VIEW

OUT U1 ~ U7 PIN DIAGRAM



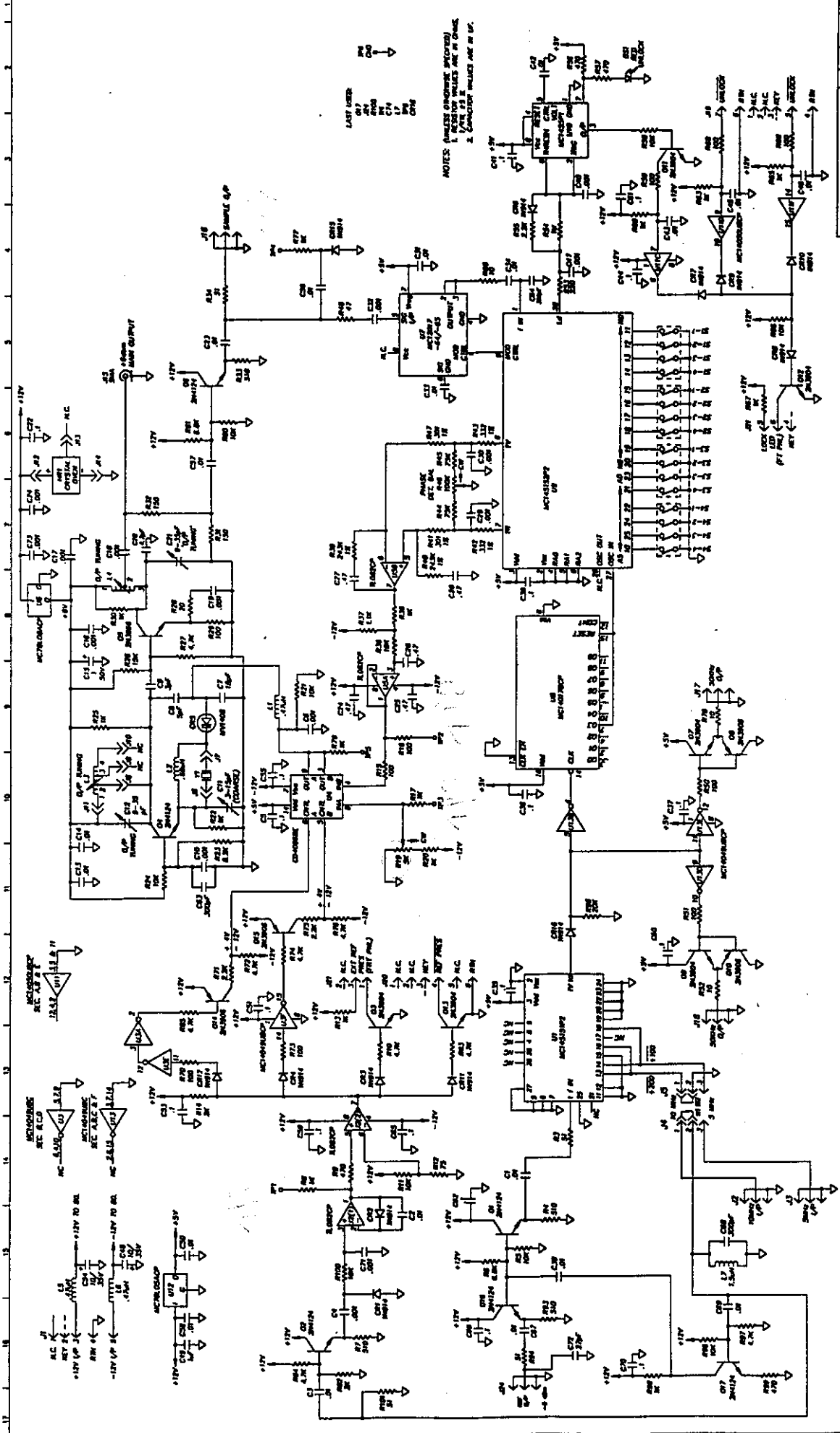
NOTES:
1) CASE TABS OF U1 ~ U7 ARE
SOLDERED TO TOP (GND) FOR
2) ALL RESISTORS ARE 1/4W, 5%
UNLESS NOTED OTHERWISE.

ITS CORPORATION				REV	ECN	DATE	APV
TITLE				SCHEMATIC, X8 MULTIPLIER BD. (1500-1143)			
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.							
MATERIAL				DRAWN	BY	DWG. NO.	REV
FINISH				CHK	CAR	1500-3143	1
				REL	CAR	7-8-83	C
				SCALE=1"=1" SHEET 1 OF 1			



NOTE: C3 & C4 ARE PROBE CAPACITANCE TO RESONATOR RODS.
C1, C2 & C5 ARE TUNING SCREWS.

REV		ECN		DATE		APV	
6/27/88		1107-3101		P		A	
DWN		JEO		6/27/88		DWG. NO.	
CHK						1107-3101	
RFI						A	
DATE		REV		ECN		APV	
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE		SCHEMATIC -		BROAD BAND CAVITY FILTER, 3 SECTION (1107-1101)	
MATERIAL		DWN		JEO		6/27/88	
FINISH		CHK					
		RFI					

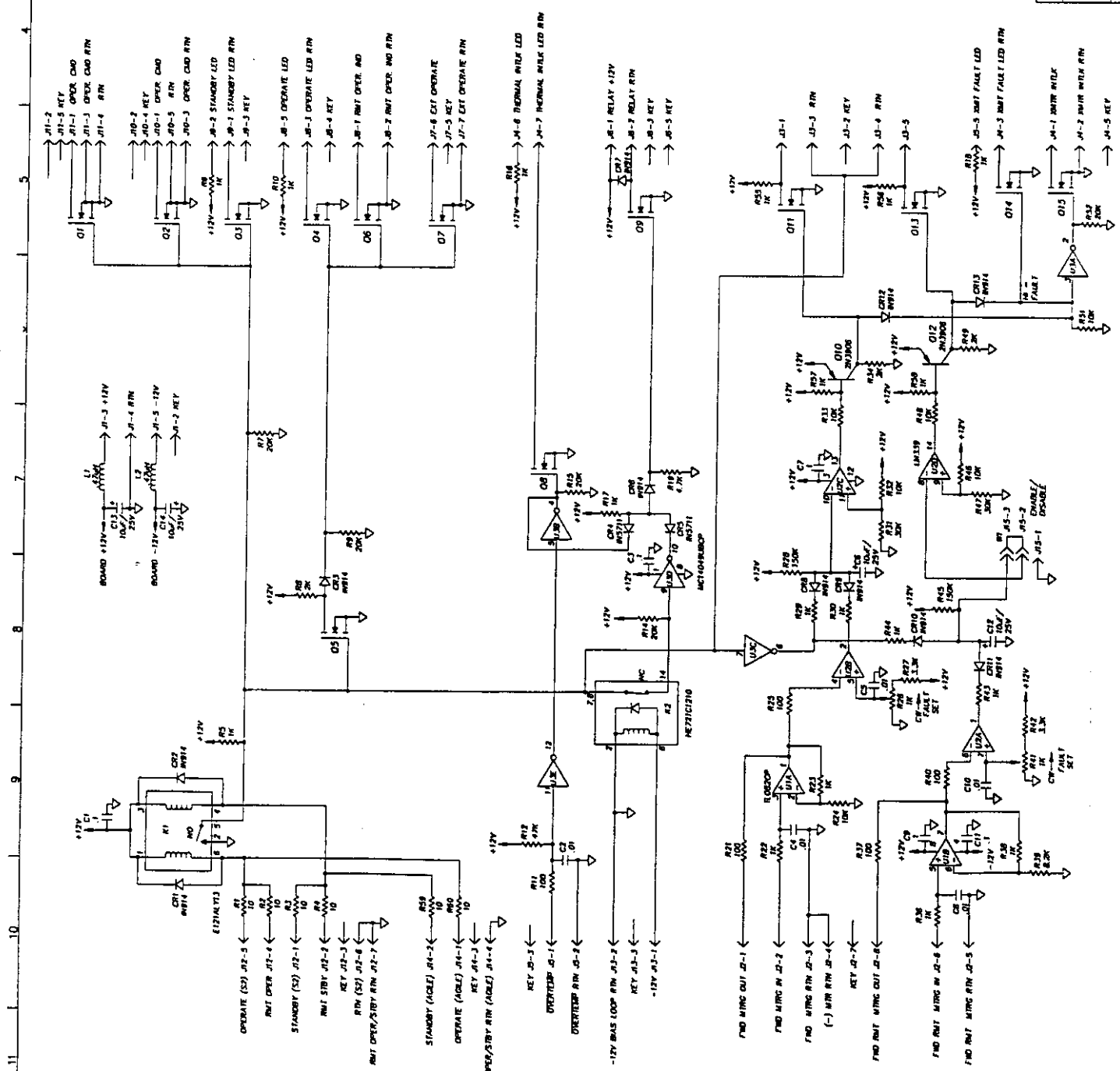
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NOT USED PINS
J1-1, J1-4, J1-5
J1-2, J1-3, J1-4, J1-5

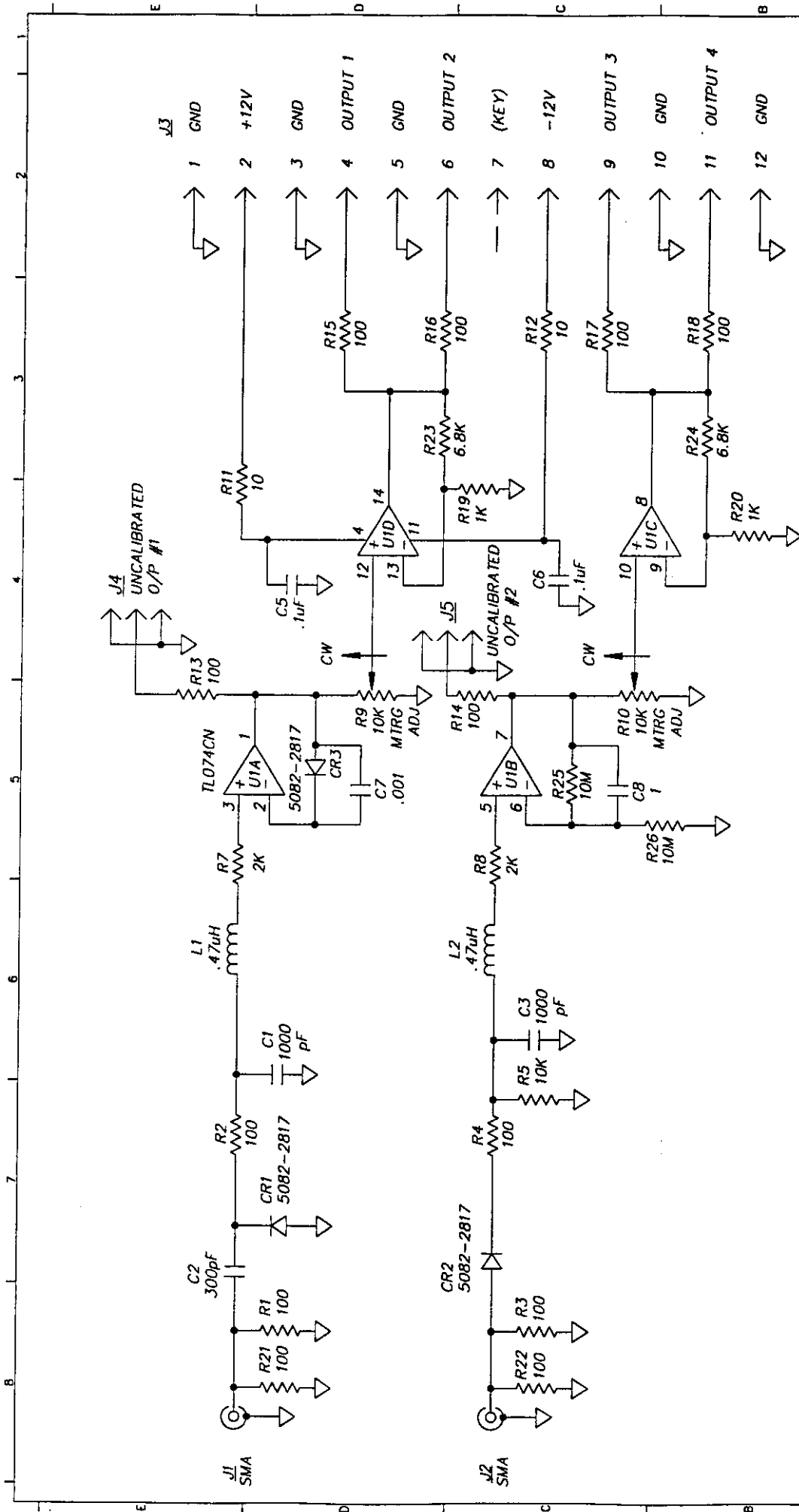
LAST REPAIRS
C14, C17, J4, J15
AND 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 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

01-08, 011, 013-015

UNUSED SECTION



ITS CORPORATION				REV	ECN	DATE	APV
TITLE				SCHEMATIC			
PROPERTY OF ITS CORP.				TRANSMITTER CONTROL BD.			
IT SHALL NOT BE COPIED				(1510-1104)			
WITHOUT PERMISSION				DWM			
MATERIAL				CHK			
FINISH				3-28-84			
DWM				5/10/84			
1510-3104				P0			

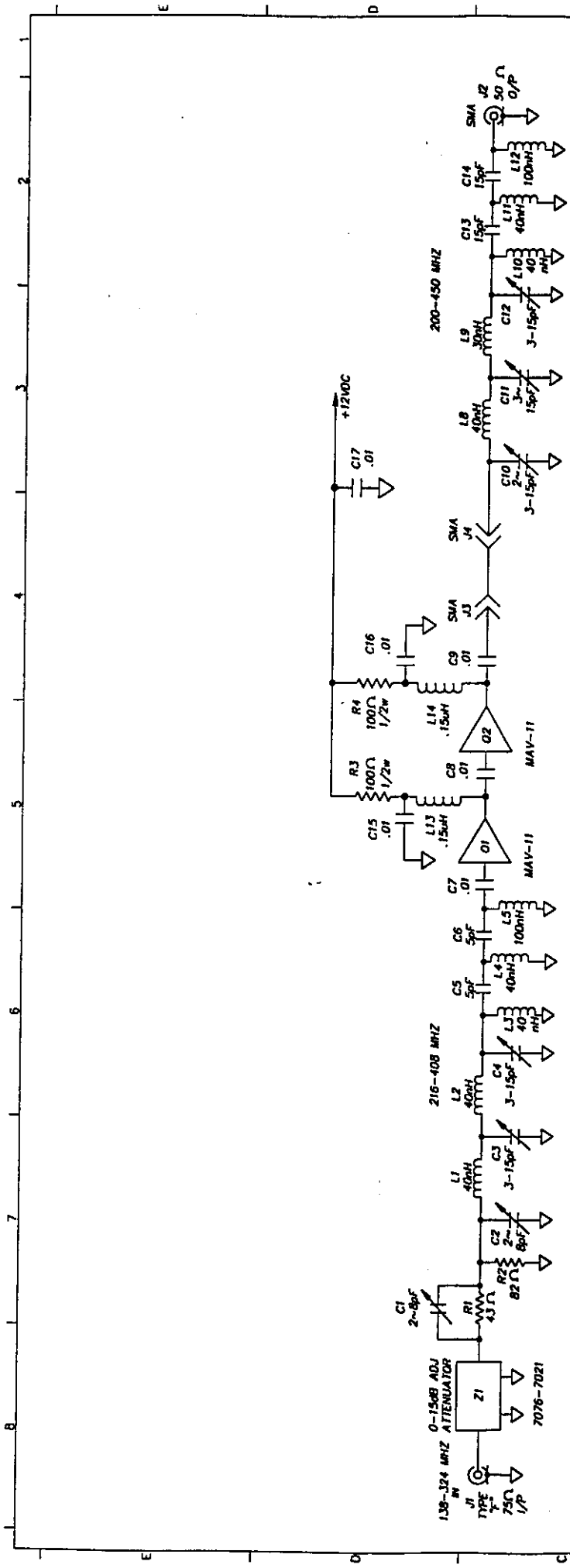


ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC - PEAK/AVG DETECTOR (1510-1105)			
MATERIAL				DWN	KEF	3/28/94	DWG. NO.
FINISH				CHK	CAR	5/10/94	REV
						1510-3105	P2

EPL CR4 WITH 10M
 0.1 MFD CAP. ADDED
 (225) RES. CR4 FROM 001
 (26) 10M RES.
 RCB

ADDED R21 THRU R24
 CHANGED CR1 THRU CR4
 FROM 5082-2811 TO
 5082-2817
 RCB

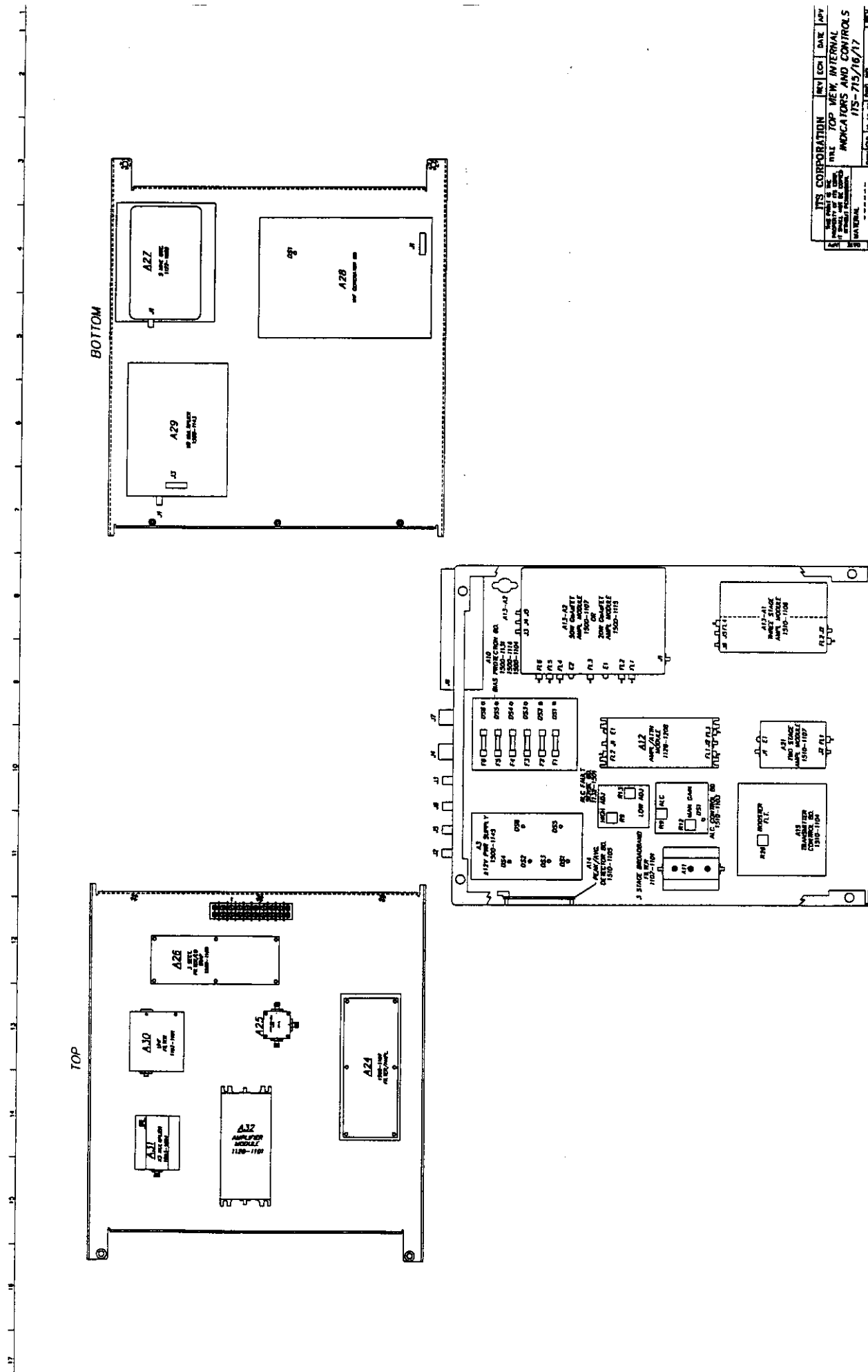
REV ECN DATE APV
 P1 --- 10/14/94
 RCB



NOTES:
 1) L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15: 5 TURNS 20AWG @ 125 DIA.
 2) L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15: 5 TURNS 20AWG @ 25 DIA.

EXTENSIVE COMPONENT VALUE CHANGES		REV		ECN		DATE		APV	
P1	01/17/95								
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.									
MATERIAL									
FINISH									
DWN KEF 4-12-94									
CHK									
REL									
DWG. NO. 1509-3107									
REV P1									
B SCALE 1:1 SHEET 1 OF 1									

ITS CORPORATION
 TITLE
 SCHEMATIC--
 FILTER/AMPL BD.
 138 - 324 MHz



ITS CORPORATION		REV	EXP	DATE	APP
TOP VIEW INTERNAL					
INDICATORS AND CONTROLS					
ITS-715/16/17					
Drawn	10-10-80	1500	7001	0	
Check	10-10-80	1500	7001	0	
Rev	10-10-80	1500	7001	0	

TYPICAL SIGNAL LEVELS

REF. PT.	40K SYS	80K SYS	120K SYS	160K SYS	180K SYS	310K SYS
A	-16dBm/CH					
B	-18dBm/CH					
C	-19dBm/CH					
D	-25dBm/CH					
E	-32dBm/CH					
F	-33dBm/CH					
G	-34dBm/CH					

NOTES:
1.(USED IF LEVELS REQUIRE)

REF. PT.	404 SYS.	804 SYS.	1204 SYS.	1604 SYS.	3104 SYS.
A	-168m/DH				
B	-168m/DH				
C	-1968m/DH				
D	-2568m/DH				
E	-3268m/DH				
F	-3568m/DH				
G	-3468m/DH				

ITS CORPORATION		REV	CO	DATE	APP
THE ABOVE IS THE PROPERTY OF ITS CORPORATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM ITS CORPORATION.		FILE BLOCK DIAGRAM: TRANSULATOR UPCONVERTER 175-715/18/17	REV 187 10/10/10 DATE 10/10/10	DATE 10/10/10 DATE 10/10/10	DATE 10/10/10 DATE 10/10/10