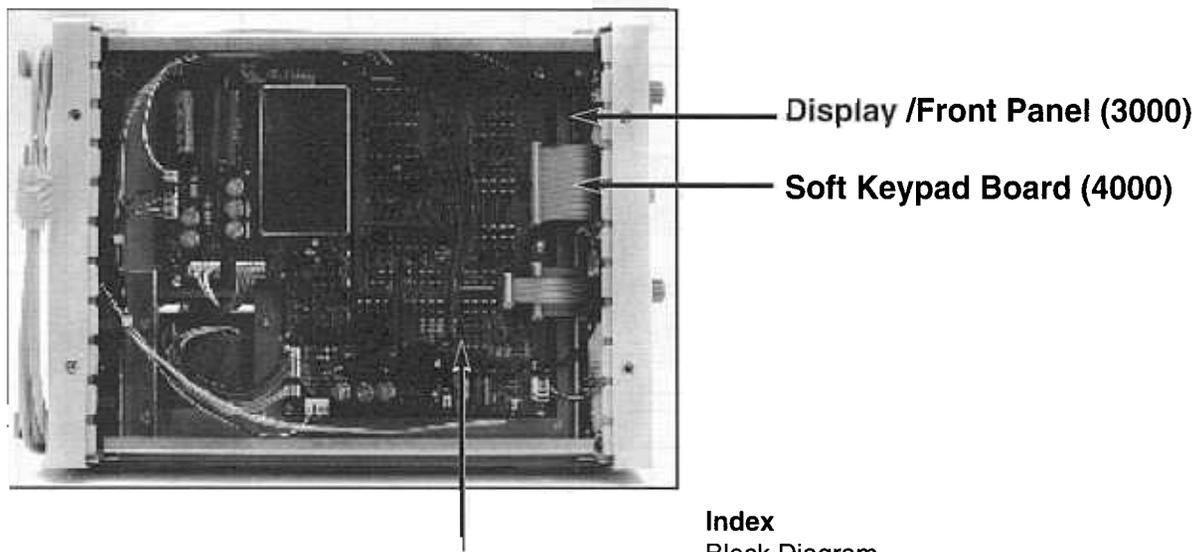
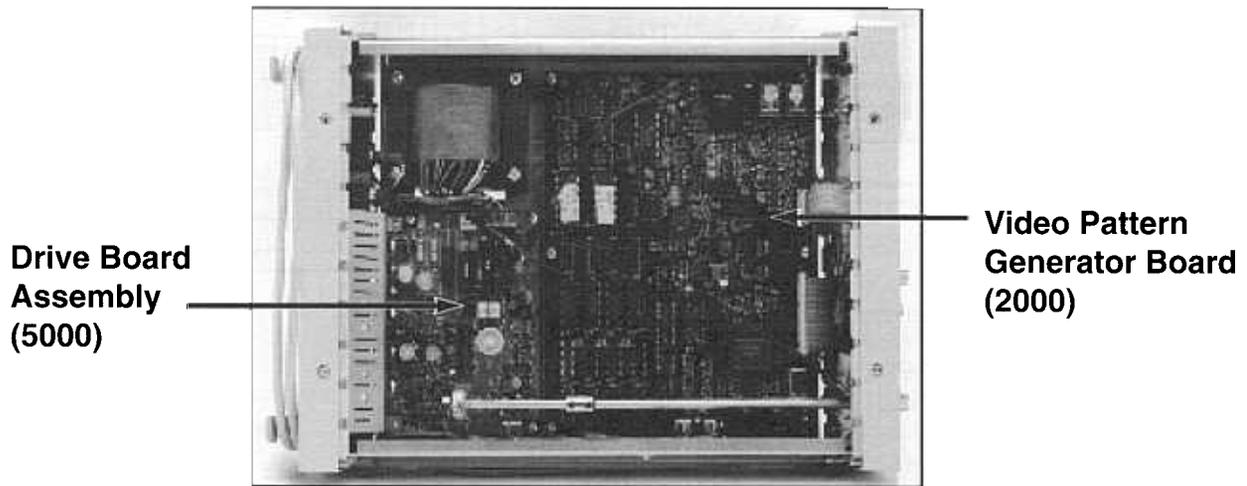


CM2125

Computer Monitor Analyzer

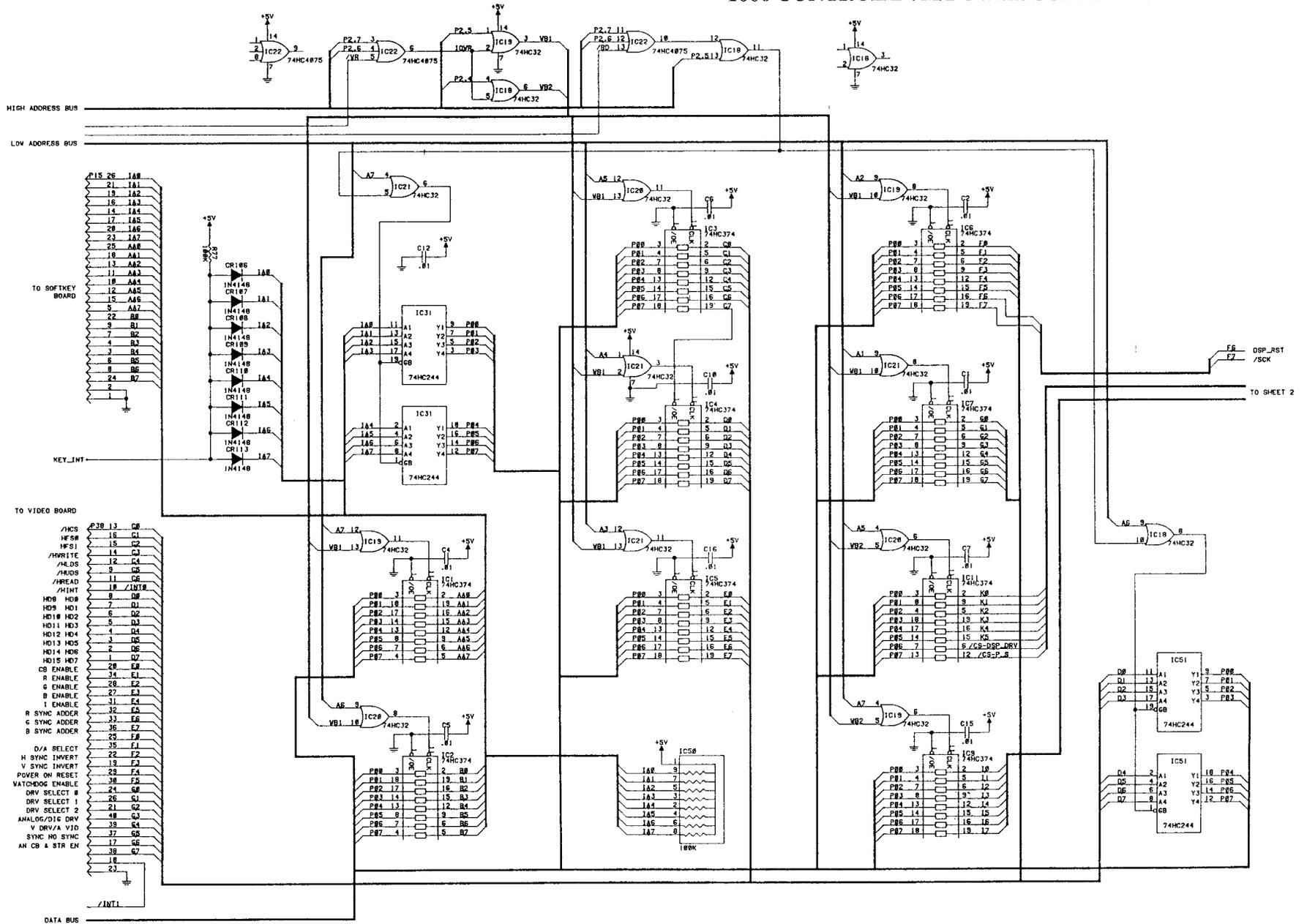
Parts List & Schematic



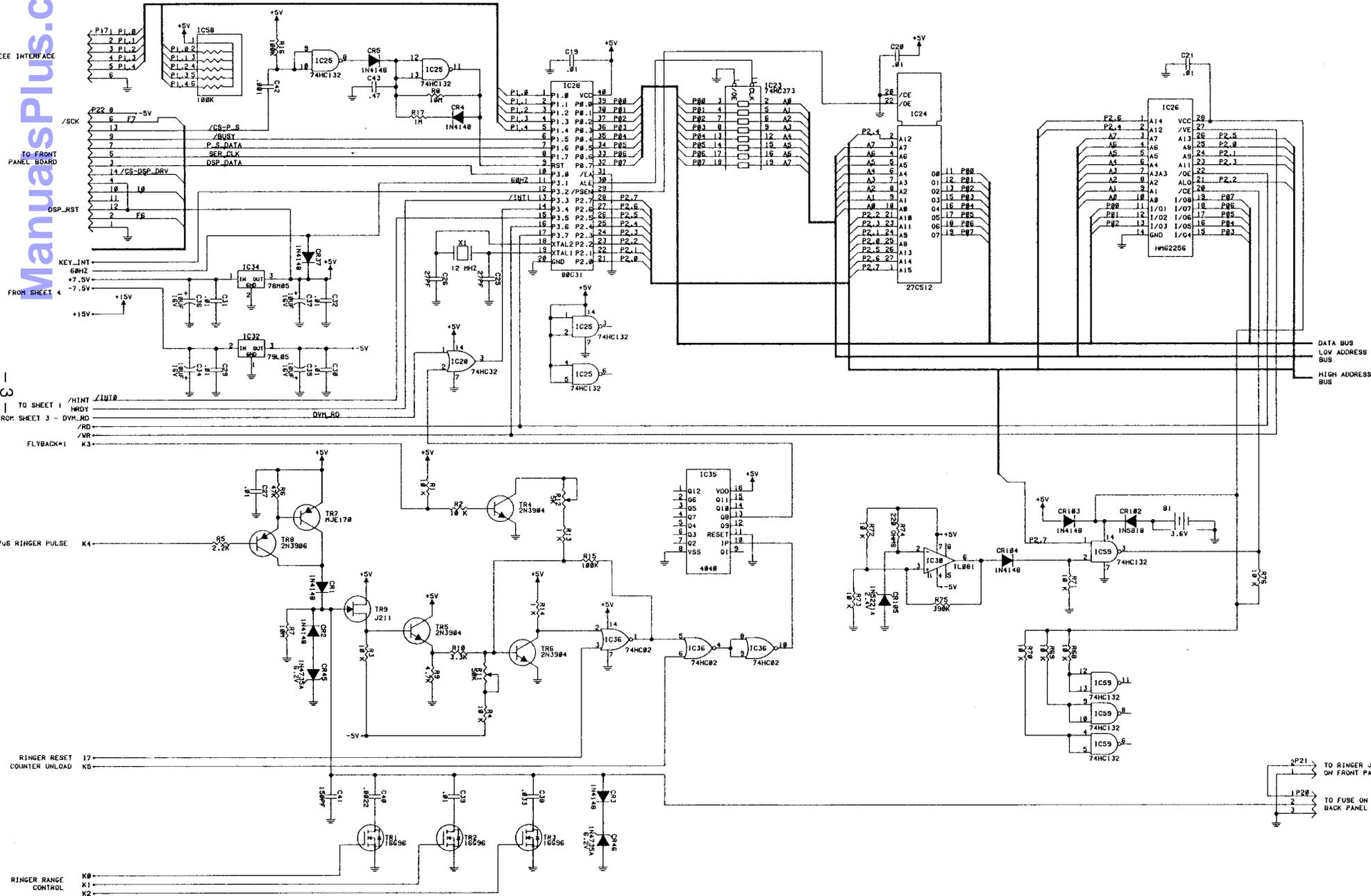
Control/DVM/Power Supply Board (1000)

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| 1000 Control/DVM/Power Supply Board | 2-8 |
| 2000 Video Board..... | 9-10, 11, 14-17 |
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| 5000 Drive Board..... | 22-23 |
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This booklet contains schematic, board legend, and parts list for each board.

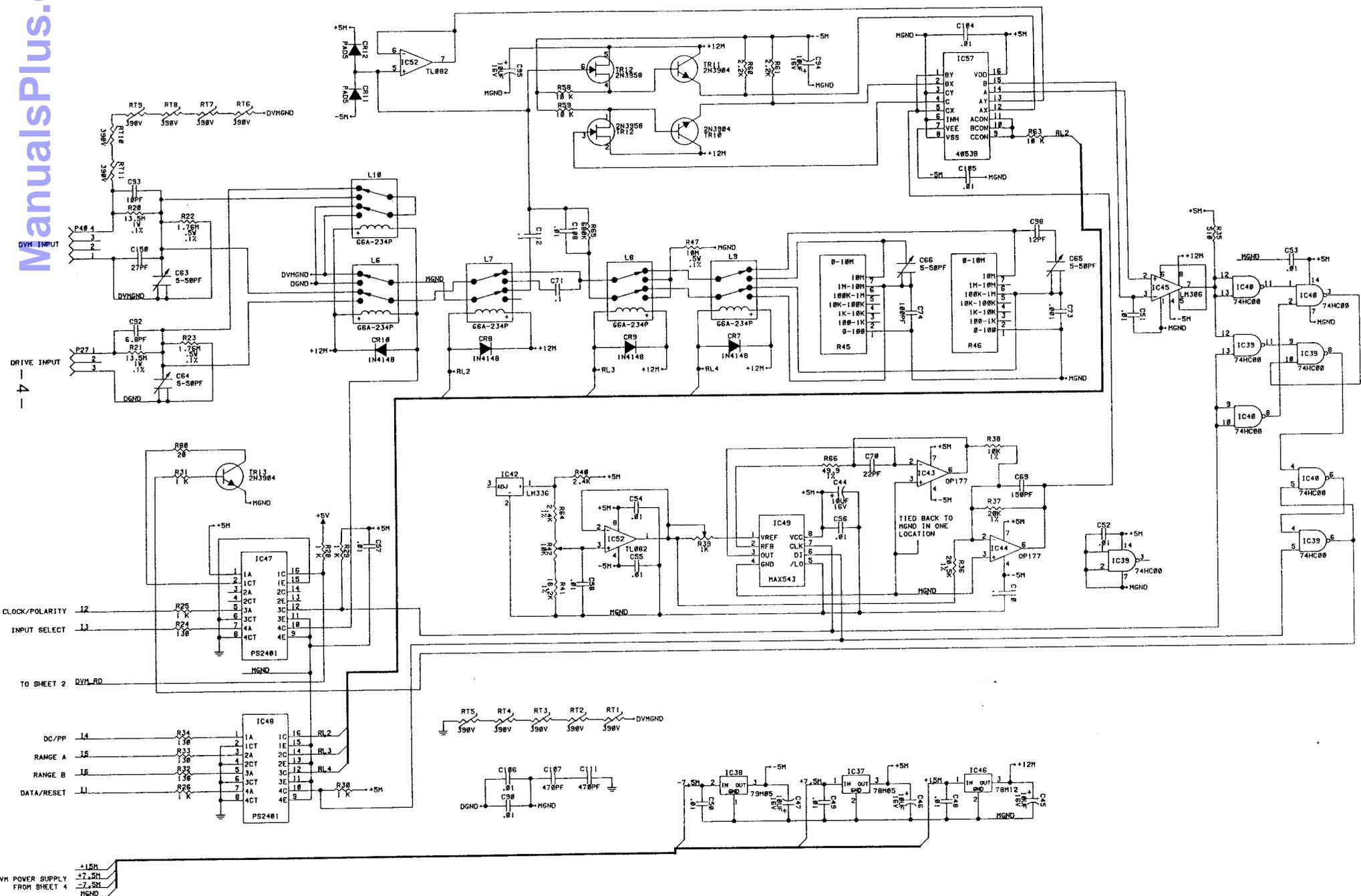


ManasPlus.com



TO RINGER JACK ON FRONT PANEL

TO FUSE ON BACK PANEL



+12V
+5V
-5V
HGND

DVM POWER SUPPLY FROM SHEET 4

TO SHEET 2 DVM_RD

CLOCK/POLARITY
INPUT SELECT

DRIVE INPUT
4

DVM INPUT

Schematic References

Component

Part Description

1000 Control/DVM/Power Supply Board

| | | |
|--------------------------------|-------------|-----------------------------------|
| B1 | 17Z13 | BATTERY, LITHIUM, 3V |
| CR36,35 CLIP LEADS | 16G14 | DIODE, PWR COMP, 100V, 3A, 5401 |
| CR38 CLIP LEADS | 50C4-20 | DIODE, ZENER, 68V, 5%, 5W, 1N5373 |
| RT1,6,7,8,9,10,11,2,3,4,5 CLIP | 33G251 | VARISTOR, 390V, +/- 10% |
| R78 | 14A38-1823A | RES, MET.F, 1.82K, 1/4W, 1%, 100P |
| R79 | 14A38-1212A | RES, MET.F, 121, 1/4W, 1%, 100PPM |
| R51,50,82,81 | 14C4-184 | RES, CARBON, 180K, 1/2W, 5% |
| CR33 | 16G23 | DIODE, SILICON, 1.3KV, 1A, 5UA, T |
| R52 | 14C4-270 | RES, CARBON, 27, 1/2W, 5% |
| CR100,101,20,18,16,31,30,21,32 | 16G10 | DIODE, SIL, 400V, 1A, 5UA, 1N4004 |
| R54 | 14C10-103 | RES, CARBON, 10K, 2W, 5% |
| CR39 | 50C4-8 | DIODE, ZENER, 20V, 45MA, 5%, 1N47 |
| R57 | 14C10-101 | RES, CARBON, 100, 2W, 5% |
| C102,101,100,49,50 | 24G483 | CAP, MYLAR, .01UF, 50V, 5%, 5MM |
| IC56,55,54 | 67G50 | HEATSINK, TO-220 |
| IC56 | 69G287 | IC, REG, NEG, ADJ, LM337T |
| IC55 | 69G135 | IC, REG, +12V, 500MA, 78M12 |
| IC54 | 69G105 | IC, REG, +15V, 500MA, 78M15 |
| C78,103,99,77 | 24G408 | CAP, RLYTIC, 330UF, 50V, +/- 20% |
| IC37 | 69G70 | IC, REG, +5V, 500MA, 78M05CT |
| C46 | 24G382 | CAP, RLYTIC, 10UF, 16V, 20% |
| IC38 | 69G273 | IC, REG, 5V, .5A, 79M05 |
| C81,79,80 | 24G437 | CAP, RLYTIC, 470UF, 25V, +100/-20 |
| IC44,43 | 69G405 | IC, OP-AMP, LOW OFFSET, OP177 |
| IC49 | 69G404 | IC, CONV, D/A, 12BIT, MAX543 |
| IC45 | 69G113 | IC, COMP, SINGLE, 8 PIN, LM306 |
| IC52 | 69G189 | IC, OP-AMP, DUAL, BIFET, TL082 |
| CR27,26,24,25,28 | 16G10 | DIODE, SIL, 400V, 1A, 5UA, 1N4004 |
| R64 | 14A38-2403A | RES, MET.F, 2.4K, 1/4W, 1%, 100PP |
| R36 | 14A38-2054A | RES, MET.F, 20.5K, 1/4W, 1%, 100P |
| R66 | 14A38-4991A | RES, MET.F, 49.9, 1/4W, 1%, 100PP |
| R41 | 14A38-1824A | RES, MET.F, 18.2K, 1/4W, 1%, 100P |
| R23,22 | 14C26-1766A | RES, MET.F, 1.76M, 1/2W, .1%, 100 |
| R21,20 | 14A80-1357A | RES, MET.F, 13.5M, 1W, .1%, 100PP |
| C110 | 24G482 | CAP, MYLAR, .1UF, 50V, 5%, 5MM |
| IC42 | 69G171 | IC, REG, +2.5V, 2% REF, LM3368Z |
| C70 | 24G151 | CAP, DISC, 22PF, 500V, 5%, NPO |
| C52,55,56,54,104,58,48 | 24G483 | CAP, MYLAR, .01UF, 50V, 5%, 5MM |
| R39 | 15A36-1 | POT, VPC20T CERM, 1K, .10% |
| C44,47,45 | 24G382 | CAP, RLYTIC, 10UF, 16V, 20% |
| R42 | 15A36-5 | POT, VPC, 10K, 20T |
| R45,46 | 69G659 | DECADE VOLTAGE DIVIDER, 100-10M |
| C74 | 24G70 | CAP, DISC, 100PF, 500V, 5%, NPO |
| C98 | 24G324 | CAP, DISC, 12PF, 500V, 5%, NPO |
| C65,66,64,63 | 24G474 | CAP, TRIM, 5.1-50PF, 250V |
| IC46 | 69G135 | IC, REG, +12V, 500MA, 78M12 |
| L10,6 | 41G36 | RELAY, DPDT, 12V, DC COIL |
| C84,151 | 24G239 | CAP, LYTIC, 150UF, 200V, +100/-20 |
| C152 SEPARATE BIN, LONGER LEAD | 24G239 | CAP, LYTIC, 150UF, 200V, +100/-20 |
| C106,90 | 24G221 | CAP, DISC, .01UF, 3000V, +80/-20% |
| C92 | 24G138 | CAP, DISC, 6.8PF, 500V, 10%, NPO |
| C93 | 24G651 | CAP, DISC, 10PF, 3000V, 20% |
| IC40,39 | 69G267 | IC, NAND, 2-IN, 74HC00 |
| IC57 | 69G64-B | IC, SW, TRIPLE, 16 PIN, 4053B |
| IC47,48 BEVELED SIDE TO PIN 1 | 69G310 | IC, OPTOCOPLER, PS2501 |
| IC25 | 69G268 | IC, NAND, 2-IN, 74HC132 |
| CR22,23 | 16G10 | DIODE, SIL, 400V, IA, 5UA, 1N4004 |
| CR14,4,7,9,10,8 | 50C5-2:A | DIODE, SIL, 75V, 100MA, .25UA, 41 |
| R80 | 14C1-620 | RES, CARBON, 62, 1/4W, 5% |
| R38 | 14A38-1004A | RES, MET.F, 10K, 1/4W, 1%, 100PPM |
| R37 | 14A38-2004A | RES, MET.F, 20K, 1/4W, 1%, 100PPM |
| R47 | 14C26-1007A | RES, MET.F, 10M, 1/2W, .1%, 100PP |

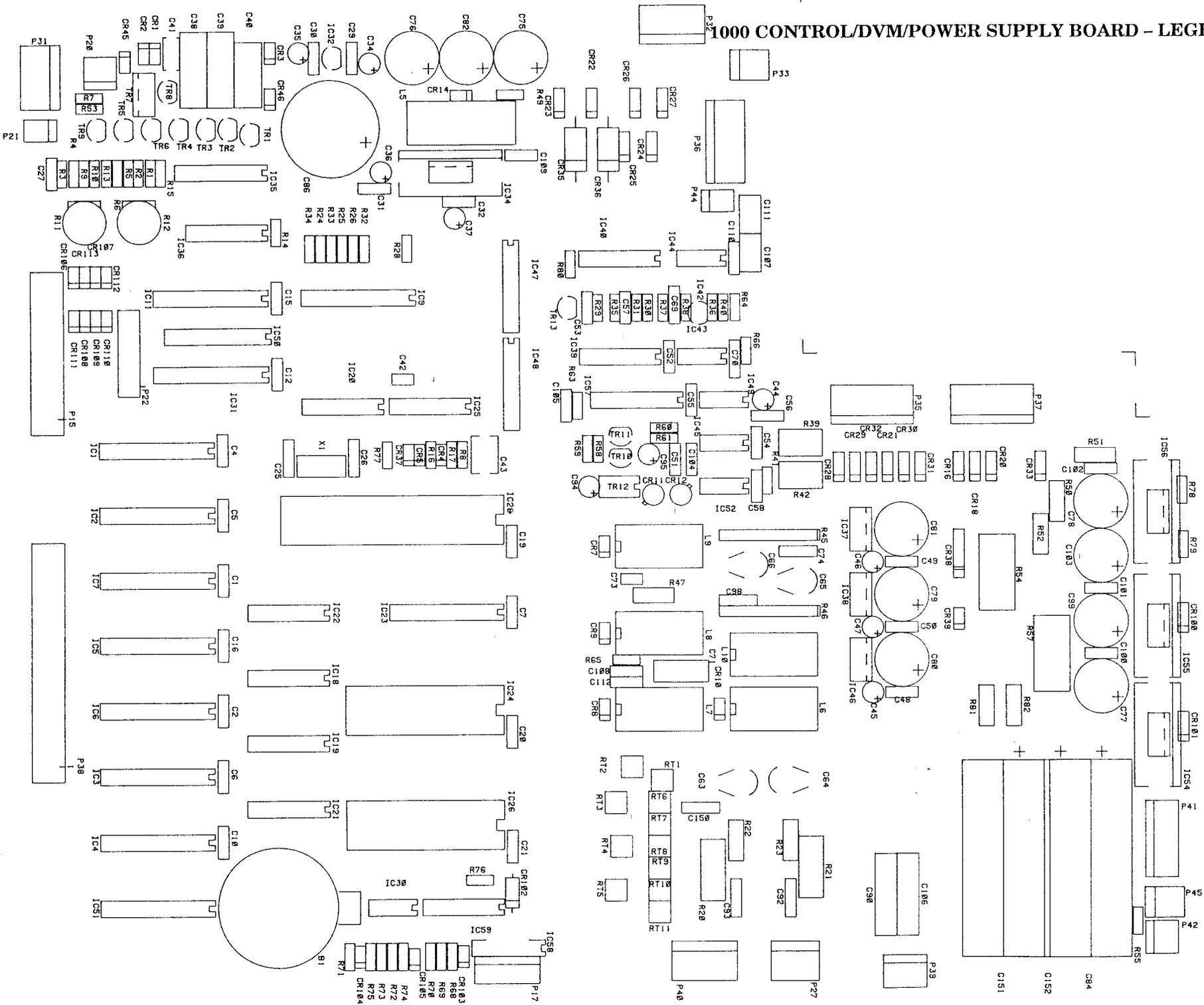
Schematic References

Component

Part Description

| | | |
|--------------------------------|----------|--------------------------------------------|
| C75,82,76 | 24G37 | CAP, RLYTIC, 470UF, 25V, +100/-20 |
| L5 | 46G92 | IND, WIREFORM, 50UH, 1.5A |
| C109,112 | 24G482 | CAP, MYLAR, .1UF, 50V, 5%, 5MM |
| IC34 | 69G70 | IC, REG, +5V, 500MA, 78M05CT |
| C32,57,53,105,51 | 24G483 | CAP, MYLAR, .01UF, 50V, 5%, 5MM |
| C69 | 24G208 | CAP, DISC, 150PF, 500V, 10%, 25F |
| TR13,11,10 | 19A33-1 | TRANS, NPN, 40V, 200MA, 2N3904 |
| TR12 | 19A31-1 | TRANS, N-CHNL, 50V, 50MA, 2N3958 |
| C37,95,94 | 24G382 | CAP, RLYTIC, 10UF, 16V, 20% |
| C42,73 | 24G368 | CAP, DIS, .001UF, 100V, 10% |
| C43 | 24G496 | CAP, MYLAR, .47UF, 50V, 10%, BULK |
| CR12,11 USE 3/8" SPAG. ON 2 LE | 50G24 | DIODE, SIL, 35V, 50MA, 20PA, PAD |
| IC35 | 69G6-B | IC, COUNTER, 12-STGE, 16PIN, 4040 |
| C71 | 24G512 | CAP, MET.POLY, .1UF, 250V, 10%, B |
| IC36 | 69G244 | IC, NOR, 2-IN, 74HC02 |
| C108 | 24G214 | CAP, DISC, .001UF, 500V, 10%, 25F |
| IC9 | 69G302 | IC, F-FLOP, D, TRI-STATE, 74HC374 |
| L9,8,7 | 41G36 | RELAY, DPDT, 12V DC COIL |
| C150 | 24G75 | CAP, DISC, 27PF, 500V, 5%, MPO |
| IC20,18,19,21 | 69G324 | IC, OR, 2-IN, 74HC32 |
| IC28 | 69G322 | IC, MICRO, 80C31 |
| IC23 | 69G202 | IC, F-FLOP, "D", OCTAL, 74HC373 |
| IC22 | 69G249 | IC, OR, 3-3IN, 74HC4075 |
| IC26 | 69Z615 | IC, STATIC RAM, 100NS, CMOS |
| IC59 | 69G268 | IC, NAND, 2-IN, 74HC132 |
| IC30 | 69G63 | IC, OP-AMP, SINGLE, BIFET, TL081 |
| IC58 | 69G172 | IC, RES, NET, 5X10K, 6PIN, SIP PK |
| CR3,5,37,103,104 | 50C5-2:A | DIODE, SIL, 75V, 100MA, .25UA, 41 |
| CR46 | 50C4-6:A | DIODE, ZENER, 6.2V, 100MA, 5%, 47 |
| CR105 | 50C4-4 | DIODE, ZENER, 2.4V, 100MA, 1N5221 |
| IC32 | 69G116 | IC, REG, -5V, 100MA, 79L05 |
| C29,30,31,19,7,20,21 | 24G483 | CAP, MYLAR, .01UF, 50V, 5%, 5MM |
| C34,35,36 | 24G382 | CAP, RLYTIC, 10UF, 16V, 20% |
| C86 | 24G424 | CAP, RLYTIC, 2200UF, 35V, 20% |
| C40 WITH 3/8" SPAG. | 24G345 | CAP, POLY, .0022UF, 160V, 10% |
| C39 | 24G403 | CAP, POLYPROP, .01UF, 400V, 10% |
| TR1,2,3 | 19G96 | TRANS, N-CHNL, 60V, 2A, MPF960 |
| X1 | 47G57 | CRYSTAL, 12MHZ, MICRO |
| C26,25 | 24G75 | CAP, DISC, 27PF, 500V, 5%, NPO |
| IC11,1,2,7,5,6,3,4 | 69G302 | IC, F-FLOP, D, TRI-STATE, 74HC374 |
| IC50 | 69G238 | IC, RES NET, PULLUP, 8 X 100K |
| IC31,51 | 69G347 | IC, BUFFER, OCTAL, 74HC244 |
| CR1,2,112,107,113,106,110,109, | 50C5-2:A | DIODE, SIL, 75V, 100MA, .25UA, 41 |
| CR45 | 50C4-6:A | DIODE, ZENER, 6.2V, 100MA, 5%, 47 |
| C38 | 24G404 | CAP, POLYPROP, .033UF, 200V, 10% |
| C41 WITH 3/8" SPAG. | 24G262 | CAP, POLY, 150PF, 125V, 5% |
| TR8 | 19A34-1 | TRANS, PNP, 40V, 200MA, 2N3906 |
| TR7 | 19A30-1 | TRANS, PNP, 40V, 3A, MJE170 |
| TR4,6,5 | 19A33-1 | TRANS, NPN, 40V, 200MA, 2N3904 |
| TR9 | 19G50 | TRANS, N-CHNL, 25V, 10MA, J211 |
| C27,15,12,4,5,1,16,2,6,10 | 24G483 | CAP, MYLAR, .01UF, 50V, 5%, 5MM |
| R12 | 15C26-20 | POT, MVPC CERM, 5K, 1/2W, 20% |
| R11 | 15C26-19 | POT, MVPC CERM, 50K, 1/2W, 20% |
| FOR B1 | 17Z14 | HOLDER, BATTERY COIN |
| CR102 | 50C5-2:a | DIODE, SIL, 75V, 100 mA, .25 μ A, 4148 |

1000 CONTROL/DVM/POWER SUPPLY BOARD - LEGEND



Schematic References

Component

Part Description

2000 Video Board

| | | |
|---------------------------------|--------------|----------------------------------|
| IC49,50 | 69G518 | IC, EPROM, 32KX8, 150NS, |
| IC102,68,69,71,70 | 69G330 | IC, BUFFER, PWR AMP, EL2003 |
| R215 | 14G102-1001A | RES, CHIP, 10, 1/8W, 1%, 100PPM |
| R3,5,51,75 | 14G102-1002A | RES, CHIP, 100, 1/8W, 1%, 100PPM |
| R4,6-9,12-14,48-50,68,136-139 | 14G102-1003A | RES, CHIP, 1K, 1/8W, 1%, 10PPM |
| 176-179,180-182,185,210 | | |
| R24,29,133 | 14G102-1004A | RES, CHIP, 10K, 1/8W, 1%, 100PPM |
| R32 | 14G102-1006A | RES, CHIP, 1M, 1/8W, 1%, 100PPM |
| R33 | 14G102-1007E | RES, CHIP, 10M, 1/8W, 1%, 500PPM |
| R144,183,184,192-199 | 14G102-1102A | RES, CHIP, 110, 1/8W, 1%, 100PPM |
| R10,70 | 14G102-1212A | RES, CHIP, 121, 1/8W, 1%, 100PPM |
| R37,38,39 | 14G102-1213A | RES, CHIP, 1.21K, 1/8W, 1%, 100P |
| R34,35,36,201 | 14G102-1502A | RES, CHIP, 150, 1/8W, 1%, 100PPM |
| R1 | 14G102-1503A | RES, CHIP, 1.5K, 1/8W, 1%, 100PP |
| R80-95,165,167,168,206-209 | 14G102-1822A | RES, CHIP, 182, 1/8W, 1%, 100PPM |
| R69 | 14G102-1823A | RES, CHIP, 1.82K, 1/8W, 1%, 100P |
| R220 | 14G102-2002A | RES, CHIP, 200, 1/8W, 1%, 100PPM |
| R15 | 14G102-2003A | RES, CHIP, 2K, 1/8W, 1%, 100PPM |
| R73 | 14G102-2432A | RES, CHIP, 243, 1/8W, 1%, 100PPM |
| R40,41,112-127,140,141,143,14 | 14G102-3012A | RES, CHIP, 301, 1/8W, 1%, 100PPM |
| 147-164,166,200,202-205,212,213 | | |
| R71 | 14G102-3013A | RES, CHIP, 3.01K, 1/8W, 1%, 100P |
| R57 | 14G102-4321A | RES, CHIP, 43.2, 1/8W, 1%, 100PP |
| R16,17,67 | 14G102-5112A | RES, CHIP, 511, 1/8W, 1%, 100PPM |
| R28 | 14G102-5113A | RES, CHIP, 5.11K, 1/8W, 1%, 100P |
| R186,216 | 14G102-6811A | RES, CHIP, 68.1, 1/8W, 1%, 100PP |
| R27 | 14G102-6813A | RES, CHIP, 6.81K, 1/8W, 1%, 100P |
| R2,96-111,128,130-132,187-190 | 14G102-8252A | RES, CHIP, 825, 1/8W, 1%, 100PPM |
| R74 | 15G50-101 | SMT, POT, VPC CERM, 100, .2W, 30 |
| R26 | 15G50-103 | SMT POT, VPC CERM, 10K, .2W, 30% |
| R45-47,72,76-79 | 15G50-152 | SMT POT, VPC CERM, 1.5K, .2W, 30 |
| R25 | 15G50-681 | SMT POT, VPC CERM, 680, 2W, 30% |
| R19 | 15G50-682 | SMT POT, VPC CERM, 6.8K, .2W, 30 |
| CR18,27-40 | 16G35 | DIODE, SMT, SIL, 400V, 1A, 4004 |
| TR4,7 | 19G92 | SMT TRANSISTOR, NPN, 3904, SOT23 |
| TR5,6,9,10 | 19G95 | SMT TRANS, PNP, 40V, 200MA, 3906 |
| TR8 | 19G102 | SMT TRANS, PNP, 15V, 25MA, BFT92 |
| C1-8,11-18,23-26,38-52,80-83 | 24G465 | CAP, CHIP, .01UF, 50V, 10%, X7R |
| 89,92,93,96-99,100,101,102-111 | | |
| C9,10,58,62,65,85,87,88,90,91 | 24G575 | CAP, CHIP, .1UF, 50V, 10%, X7R |
| C113-123 | 24G594 | CAP, CHIP, 1500PF, 50V, 10%, X7R |
| C21,55,56,57 | 24G606 | CAP, CHIP, .001UF, 50V, 10%, X7R |
| C20,27,84,86 | 24G612 | CAP, CHIP, 100PF, 50V, 5%, NPO |
| C22 | 24G616 | CAP, CHIP, 22PF, 50V, 5%, NPO |
| CR4,5,6,7,10 | 50G36 | SMT DIODE, SIL 75V, 100MA, 4148 |
| IC39 | 69G428 | SMTIC, CONV, 8BIT, DAC-08E |
| IC43,105 | 69G431 | SMTIC, MUX, 16PIN, 4052 |
| IC20,27 | 69G435 | SMTIC, NOR, 2-IN, 74HC02 |
| IC13 | 69G438 | SMTIC, NAND, 2-IN, 74HC00 |
| IC19 | 69G439 | SMTIC, NAND, 2-IN, 74HC132 |
| IC40 | 69G440 | SMTIC, COUNTER, BINARY, 74HC393 |
| IC1,2,10,16-18,74,86,87 | 69G441 | SMTIC, F-FLOP, TRI-S, D, 74HC374 |
| IC14,28,83,95 | 69G443 | SMTIC, OR, 2-IN, 74HC32 |
| IC5 | 69G453 | SMTIC, OP-AMP, QUAD, TL084 |
| IC37,98 | 69G454 | SMTIC, F-FLOP, D, DUAL, 74AC74 |
| IC15,21,66,84 | 69G455 | SMTIC, AND, 2-IN, 74HC08 |
| IC97 | 69G456 | SMTIC, SW, ANA, 74HC4316 |
| IC38 | 69G458 | SMTIC, OP-AMP, HI-SPEED, 6361 |
| IC29 | 69G465 | SMTIC, INV, HI-SP, 74HC04 |
| IC96,106 | 69G498 | SMTIC, NOR, 2-IN, ECL, 10H102 |
| IC32,33,34,35,101 | 69G512 | SMTIC, COUNTER, 4BIT, 74ACT161 |
| IC48,77,79,100 | 69G513 | SMTIC, MUX, 10F8, 74ACT151 |
| IC11,12,25 | 69G515 | SMTIC, AND, 2-IN, 74HCT08 |

Schematic References**Component**

IC6,7
 IC8,9
 IC47
 IC67
 IC76
 IC85
 IC3,24,26
 IC23,73,22
 IC59,60,61,62
 IC63
 IC72
 IC64,65
 IC44
 IC103
 IC108
 IC107
 IC36,45
 IC75
 IC109,110,111
 IC54,53,52,51
 C68
 IC104
 IC99
 L4
 IC78,46
 C124,66,64,53,37,59,61,60
 TR1,2,3,4,7,5,6
 R219,217,218
 CR20,19,22,21,24,23,25,26,43,46,41,42
 X1 SQUARE CORNER CLOSE TO C15
 X2
 C69
 IC41
 IC42

69G516
 69G517
 69G519
 69G537
 69G539
 69G553
 69G613
 69G756
 69G826
 69G837
 69G838
 69G839
 69G840
 69G886
 69G916
 69G917
 69G920
 69G542
 69G330
 69G525
 24G407
 69G70
 69G116
 41G37
 69G29
 34G382
 33G361
 14C4-330
 50C4-22
 69G527
 47G57
 24G496
 69G260
 69G511

SMTIC, LATCH, OCTAL, 74HCT373
 SMTIC, TRNSCVR, OCTAL, 74HCT245
 SMTIC, PROCESSOR, GRAPHICS, 3401
 SMTIC, MUX, 2-IN, 74ACT157
 SMTIC, AND DRIVER, 2-IN, 74AS100
 SMTIC, NAND, 2-IN, 74ACT00
 SMTIC, AND GATE, 2 INPUT, 74ACT0
 SMTIC, QUAD, 2 IN, EX.OR, 74ACT8
 SMTIC, VRAM, 256KX4, 42C4256
 SMTIC, HEX COUNTER, 10H136, PLCC
 SMTIC, QUAD 2INPUT AND, MC10H104
 SMTIC, 8BIT SHIFT REG, 100341
 SMTIC, PROG FREQ GEN, AV9110
 SMTIC, QUAD, LOWPWR, AMP, EL2444
 SMTIC, DUAL D F-FLOP, MC10H131
 SMTIC, EXCL OR/NOR, MC10H107
 SMTIC, 4BIT SYNC CNTR, 74FCT163
 IC, COLOR PALETTE, ADV476
 IC, BUFFER, PWR AMP, EL2003
 IC, DRAM, 64K X 4, 4067C-10
 CAP, RLYTIC, 47UF, 25V, +/- 20%
 IC, REG, +5V, 500MA, 78M05CT
 IC, REG, -5V, 100MA, 78L05
 RELAY, 4PDT, 12V
 IC, REGC +5V, 100MA, 78L05
 CAP, RLYTIC, 10UF, 16V, 20%
 PTC, 250V, 3A
 RES,CARBON, 33, 1/2W, 5%
 DIODE, ZENER, 6.2V, 765MA, 10%
 IC, OSC, CLOCK, TTL, 40 MHZ
 CRYSTAL, 12 MHZ, MICRO
 CAP, MYLAR, .47UF, 50V, 10%, BULK
 IC, REG, +12V, 1A, TO-220, 7812
 IC, REG, -12V, 1A, 7912

6000 EMI Filter Board (6000 Board See Block Diagram)

Schematic References

R1,2
 L1,2
 C1,2

Component

14C4-266
 46G92
 25G686

Part Description

RES, CARBON, 22M, 1/2W, 5%
 INC, WIREFORM, 50μH, 1.5A
 AP, DISC, 2200pF, 125VAC, 20%, CSA

Miscellaneous Chassis Parts**Schematic References**

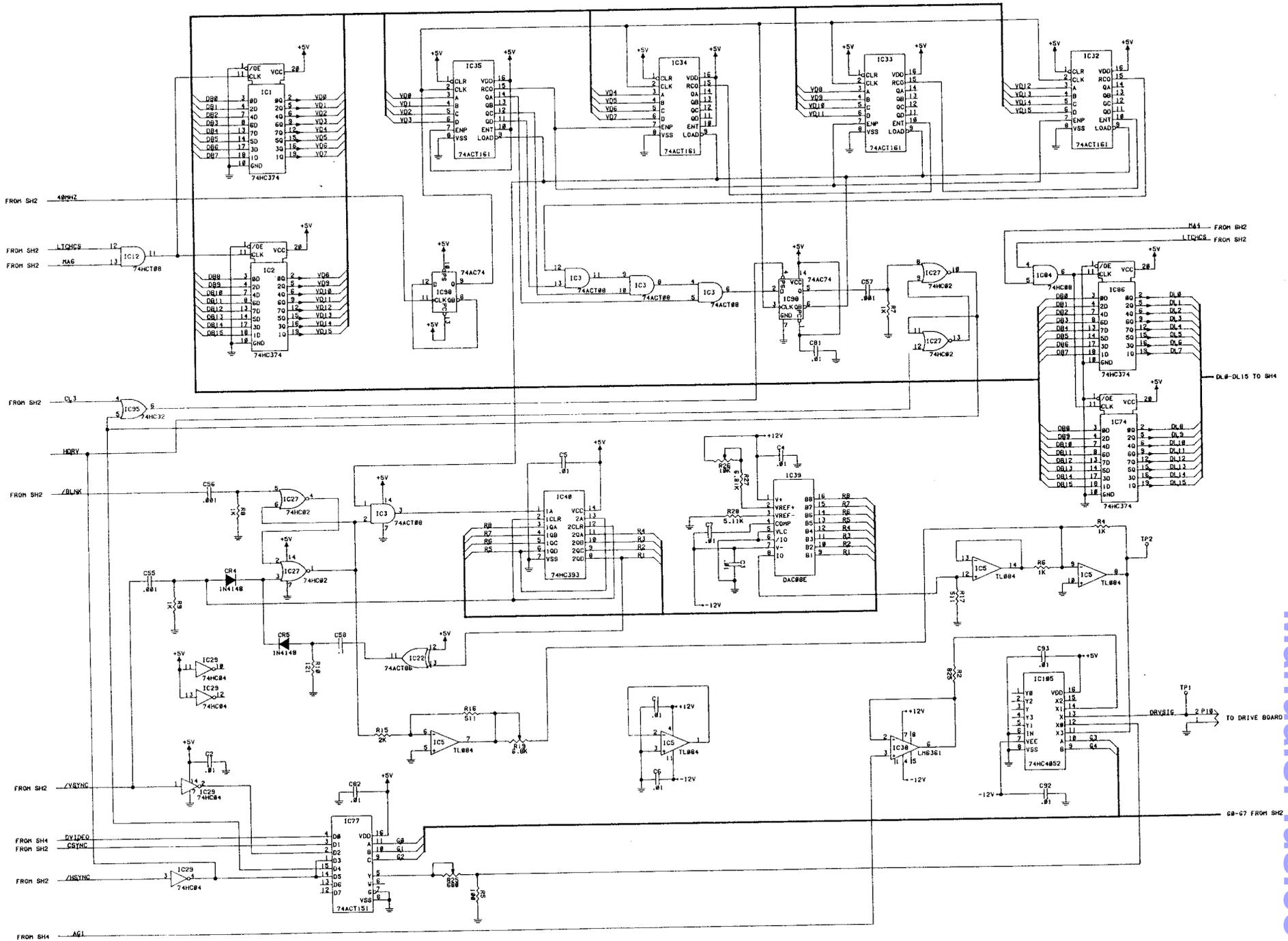
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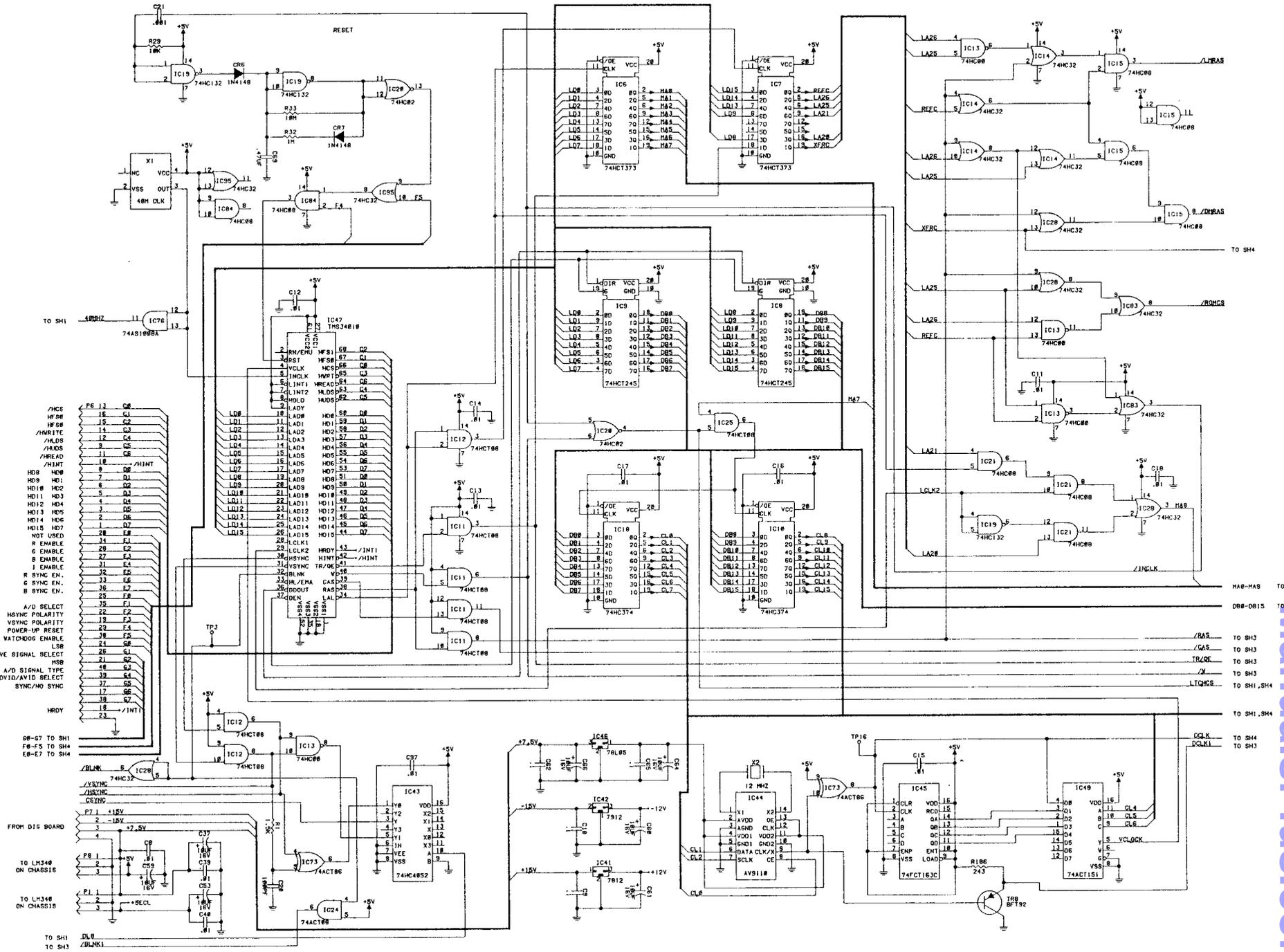
Component

128A151
 68G277
 126G18
 64G1433
 44G20
 44G18

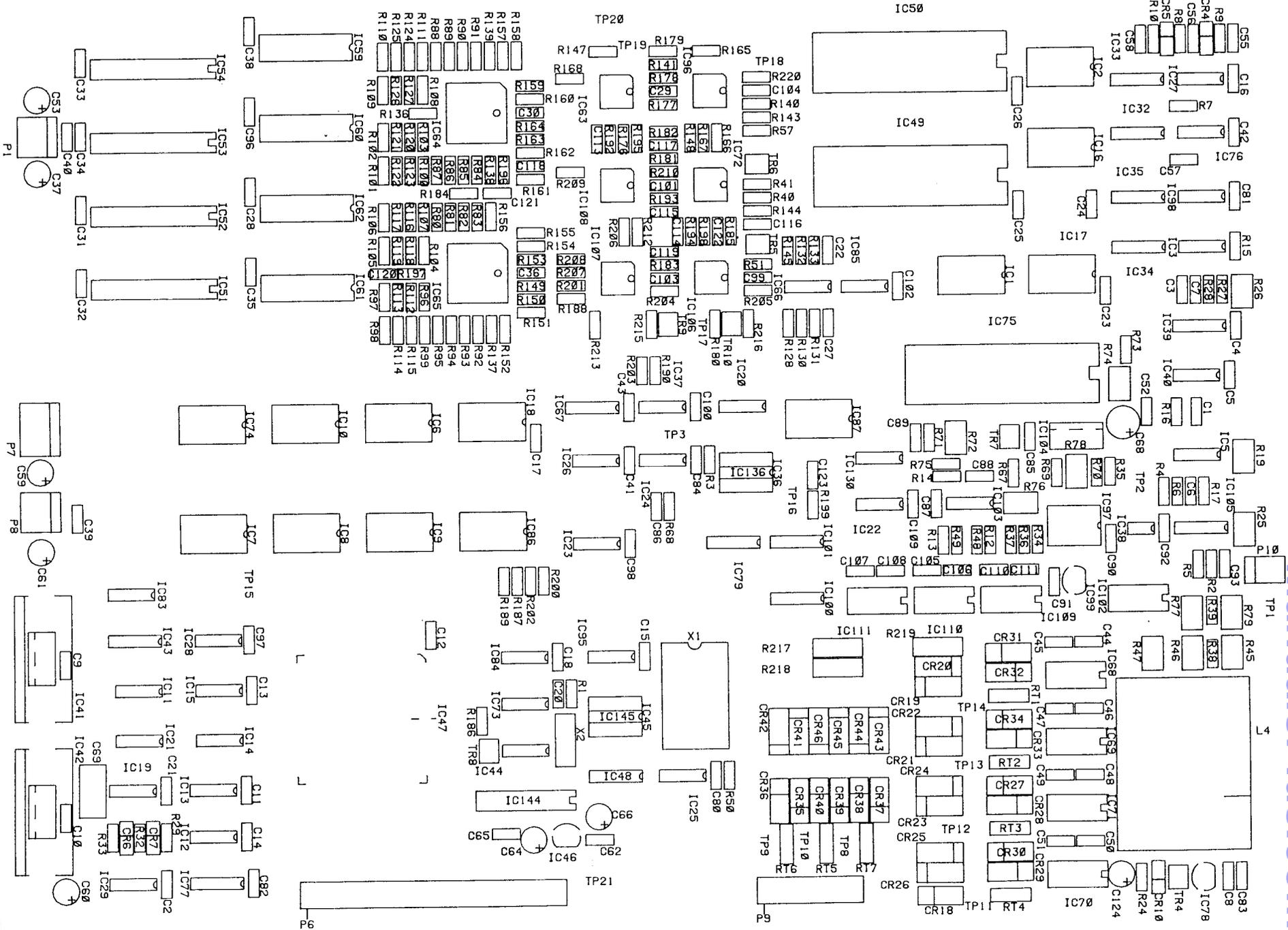
Part Description

TRANSFORMER ASSEMBLY
 IC, REG, +5V, 1A, 7805CT
 DIN JACK ASSEMBLY
 FUSEHOLDER, SQ, SNAP-IN, GRAY
 FUSE, FASTBLOW 3AG, 1AMP, 250V
 FUSE, FASTBLOW 3AG. 1/2A, 250V

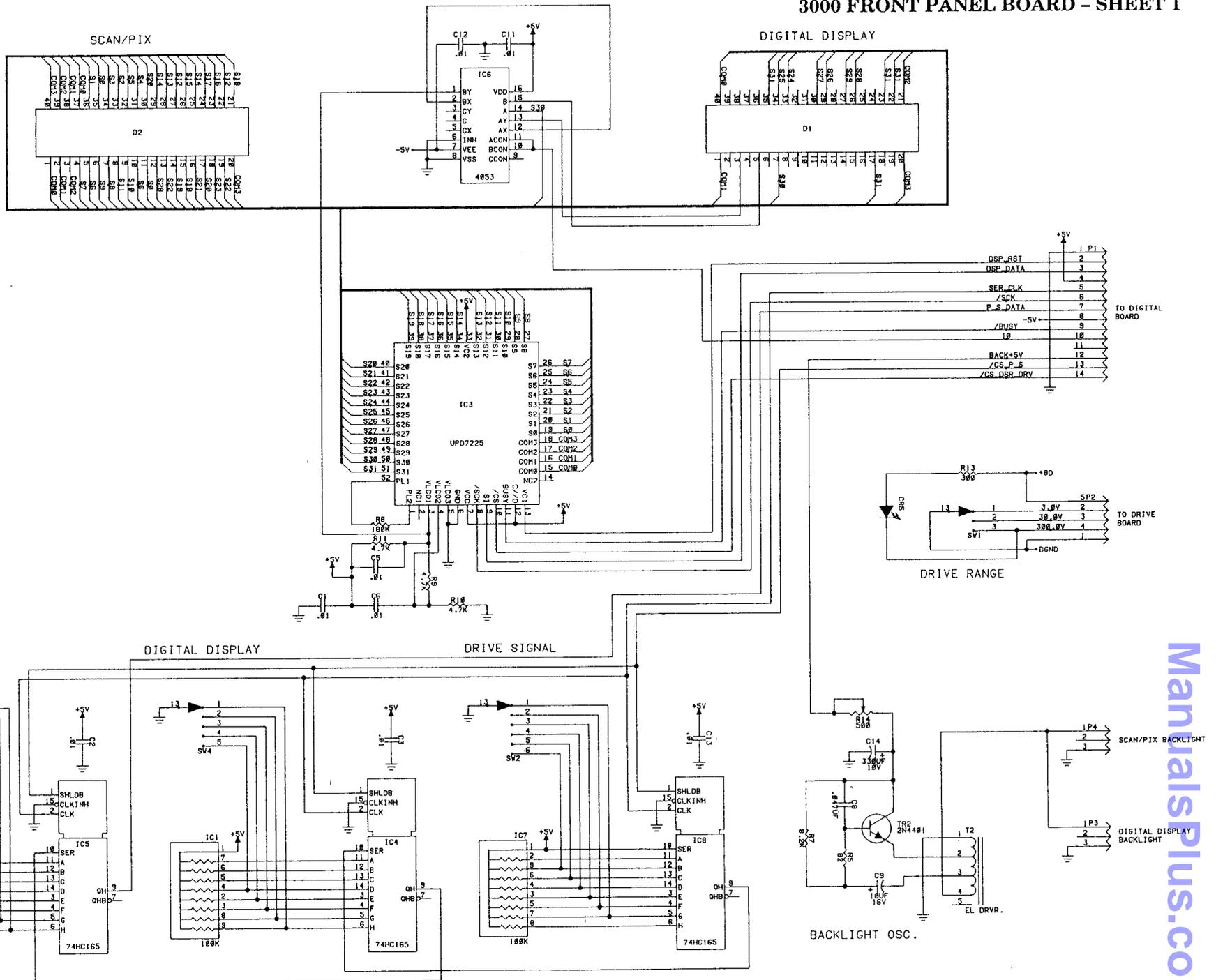




2000 VIDEO BOARD LEGEND



3000 FRONT PANEL BOARD - SHEET 1



Schematic References
3000 Front Panel Board

Component

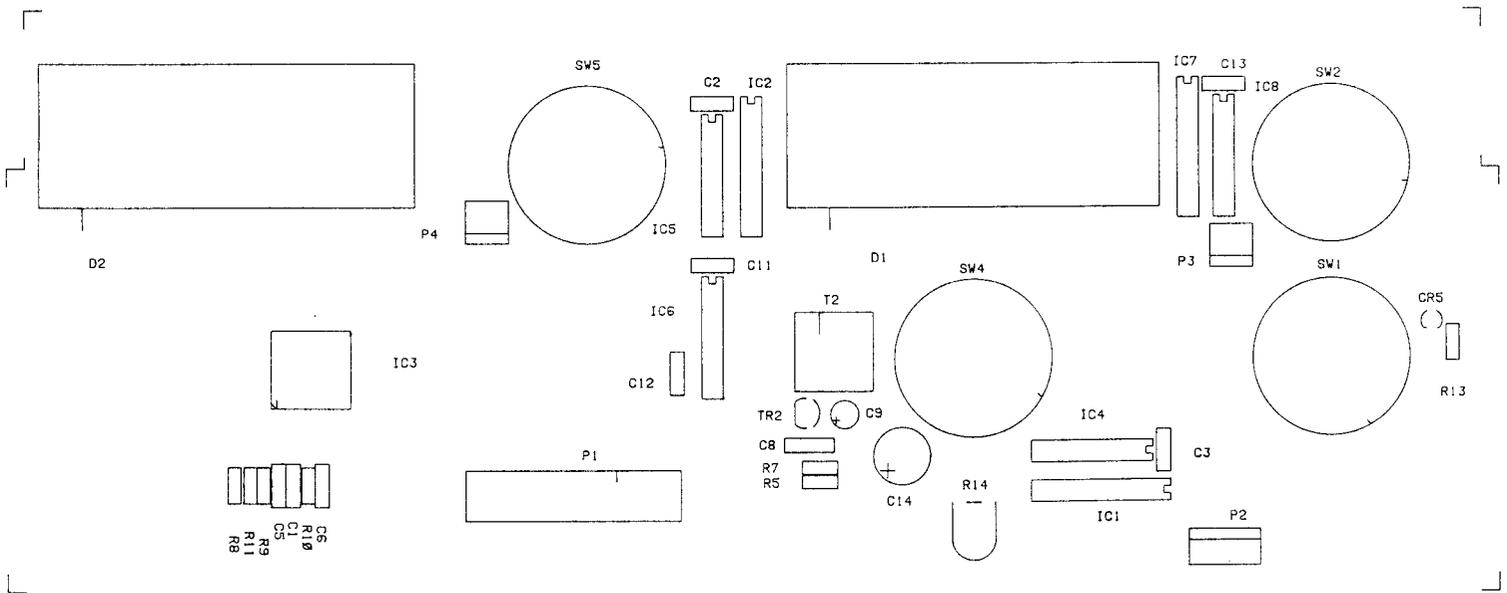
Part Description
 LCD, DIGITAL, CM2125
 SWITCH, ROTARY, 1 POLE, 12 POS.
 SMTIC, DRIVER IC, 52 PIN, UPD722
 LCD, SCAN/PIX, CM2125
 IC, SW, TRIPLE, 16PIN, 40538
 IC, SH REG, PAR/SER, 74HC165
 CAP, MYLAR, .01UF, 50V, 5%, 5MM
 IC, RES NET, PULLUP, 8 X 100K
 TRANS, NPN, 40V, 600MA, 2N4401
 CAP, MYLAR, .047UF, 50V, 10%, BU
 CAP, RLYTIC, 10UF, 16V, 20%
 TRANSFORMER, EL BACKLIGHT
 CAP, RLYTIC, 330UF, 10V, 20%
 POT, MVPC, 500, 20%, TOP-BOT ADJ
 LAMP, LED, 5V, 20MA, FLASHING

D1
 SW1,2,4,5
 IC3
 D2
 IC6
 IC5,4,8
 C5,1,6,2,11,12,13,3
 IC2,7,1
 TR2
 C8
 C9
 T2
 C14
 R14
 CR5

23A98
 25G358
 69G196
 23A108
 69G64-B
 69G407
 24G483
 69G238
 19A44
 24G485
 24G382
 28G126
 24G248
 15A42-7
 20G20

3000 Front Panel Legend

SCT43C579



Schematic References

Component

Part Description

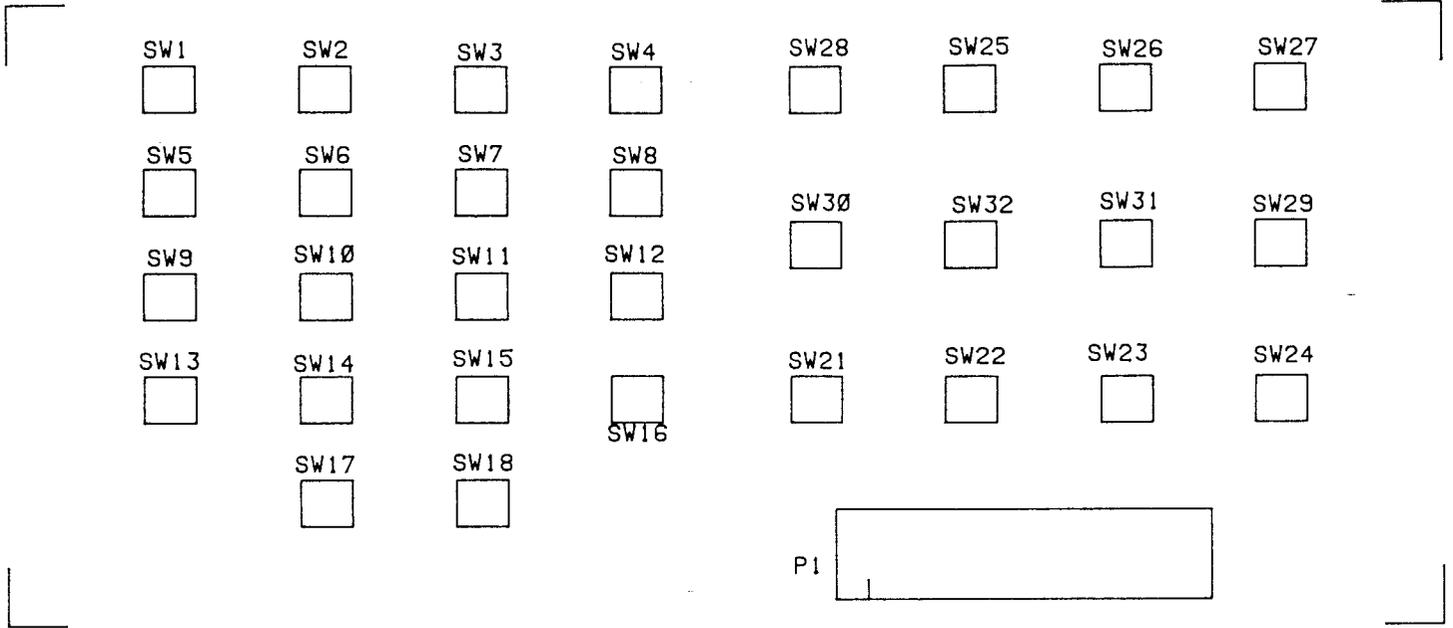
4000 Keyboard Board

R1,2,3,4,5,6,7,8,9,10,11,12,
CR5,6,7,8,9,10,11,12,13,14,15

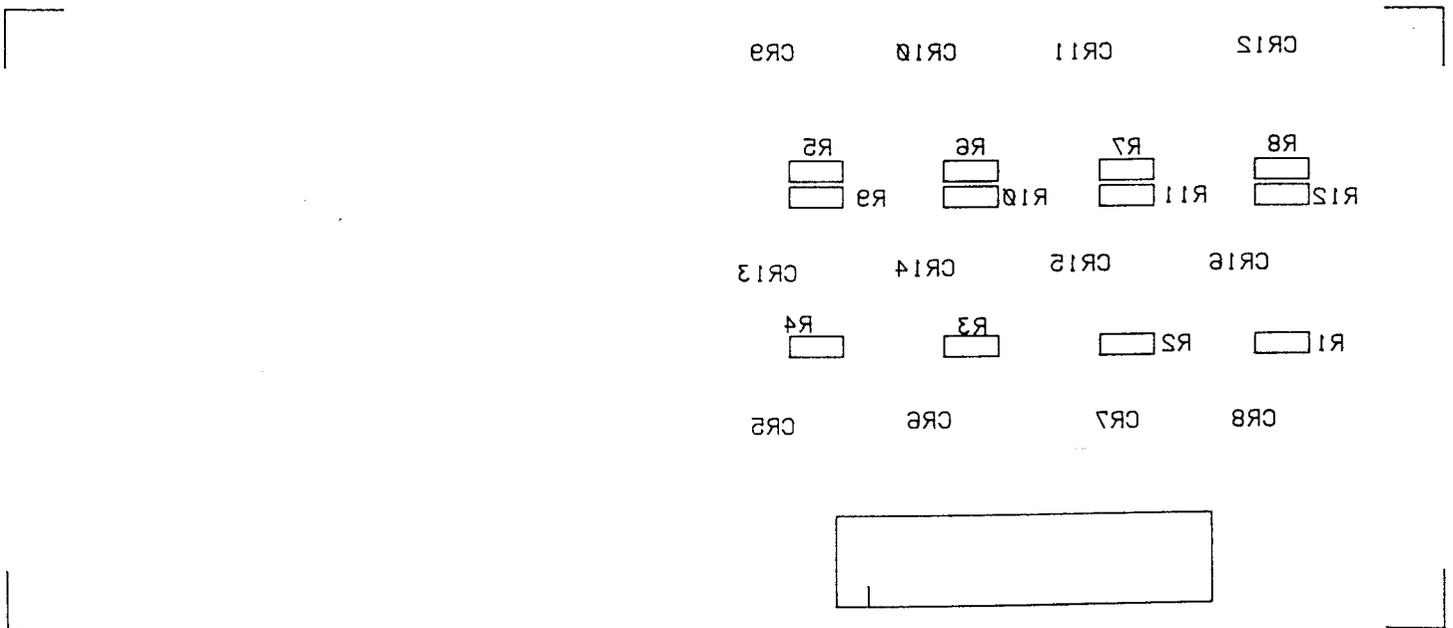
14G102-4752A
20G55

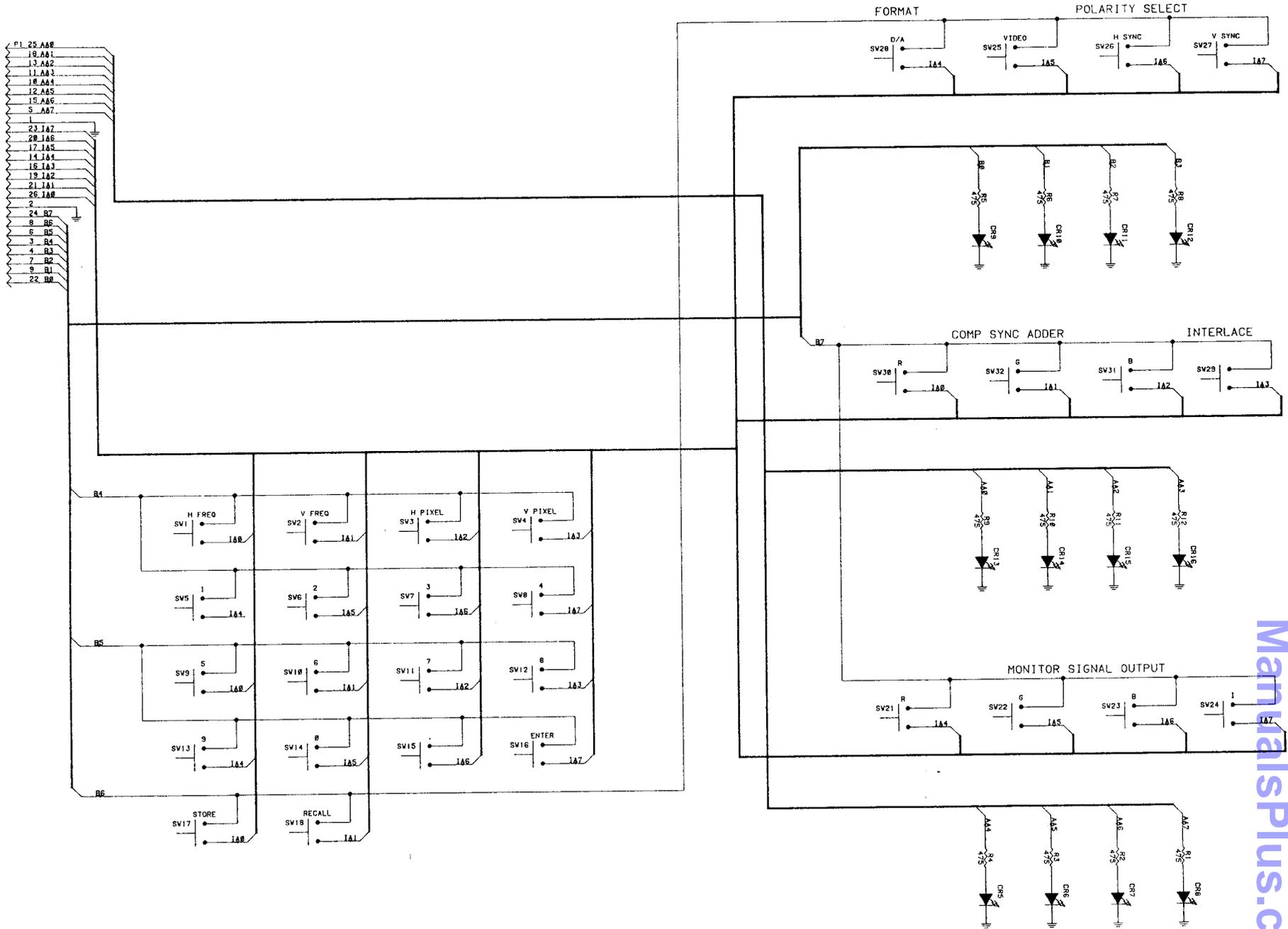
RES, CHIP, 475, 1/8W, 1%, 100PPM
SMTLED, RED, 1.8V, 10MA

4000 Keyboard Legend (Front)

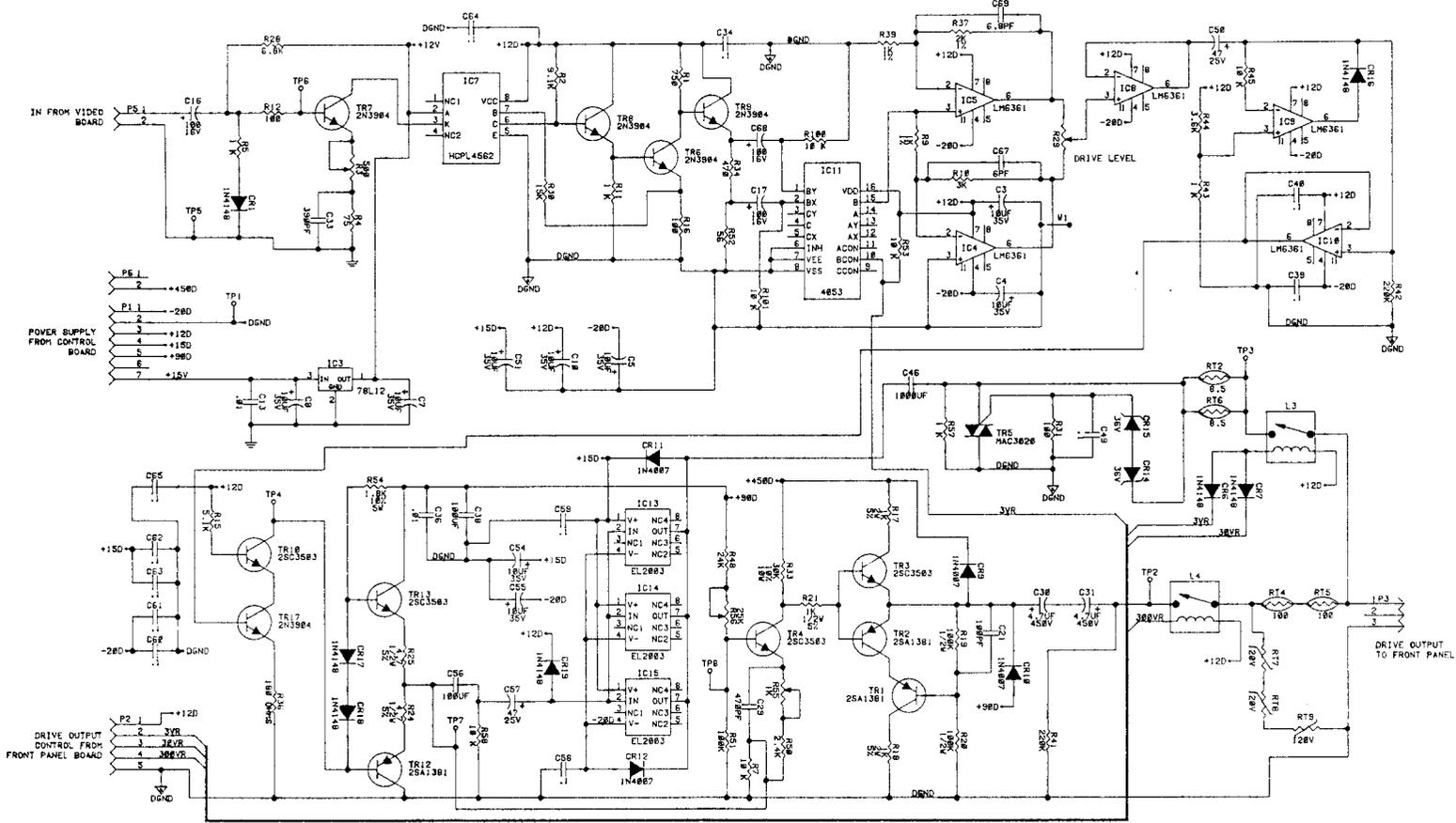


4000 Keyboard Legend (Back)





TO MAIN



Schematic References
5000 Drive Board

Component

Part Description

TR1,2,12 SUB-ASSEMBLY
 TR3,4,13 SUB-ASSEMBLY
 C46 SUB-ASSEMBLY
 R29 SUB-ASSEMBLY
 CR25 ADD-ON
 SUB-ASSEMBLY
 R54 INSTALL AND CLIP LEADS
 R33 INSTALL AND CLIP LEADS
 RT9,8,7 INSTALL AND CLIP LEAD
 RT5,4 INSTALL AND CLIP LEADS
 RT6,2 INSTALL AND CLIP LEADS
 IC7
 CR1
 CR9
 R19,20
 R21
 C21
 C13
 IC3

19G107
 19G110
 24G631
 15B56
 50C5-2:A
 19A29-3
 14A94-5
 14G105-1
 33G273
 33G285
 33G333
 69G412
 50C5-2:A
 16G18
 14C4-104
 14C4-102
 24G70
 24G483
 69G127

TRANS, PNP, 300V, 7W, 2SA1381
 TRANS, NPN, 300V, 7W, 2SC3503
 CAP, RLYTIC, 1000UF, 63V, 20%, N
 POT, HPC CARB, 10K, 1/2W, 30%
 DIODE, SIL, 75V, 100MA, .25UA, 4
 TRANS, NPN, 80V, 3A, MJE182
 RES, W/W, 1.8K, 5W, 5%
 RES, W/W, 30K, 10W, 5%
 MOV, 120V, 10%
 THERMISTOR, 100-OHM, @25 DEG. C
 THERMISTOR, 8.5 OHM, 600V
 IC, OPTOCOUPLER, HCPL-4562
 DIODE, SIL, 75V, 100MA, .25UA, 4
 DIODE, SILICON, 1KV, 1A, 10UA, 4
 RES, CARBON, 100K, 1/2W, 5%
 RES, CARBON, 1K, 1/2W, 5%
 CAP, DISC, 100PF, 500V, 5%, NPO
 CAP, MYLAR, .01UF, 50V, 5%, 5MM
 IC, REG, +12V, 100mA, 78L12

- C8,7,51,10,5
- C16
- R3
- C33
- TR7
- L4
- L3
- C31,30
- IC13,14,15
- R17,18
- CR11,12,10
- CR14,15
- CR17
- TR6,9,8
- C68
- TR5
- C64,49,63,61,62,60,59
- C54
- C57
- R55
- C29
- R56
- C38,56 CLIP 1/8" PAST THE BOD
- IC11
- IC5,4,9,10,8
- R39,9
- R37
- CR6,7,19,16,18
- C36
- C4,3,55 - CUT NOT CRIMPED
- C34,58,40,65,39

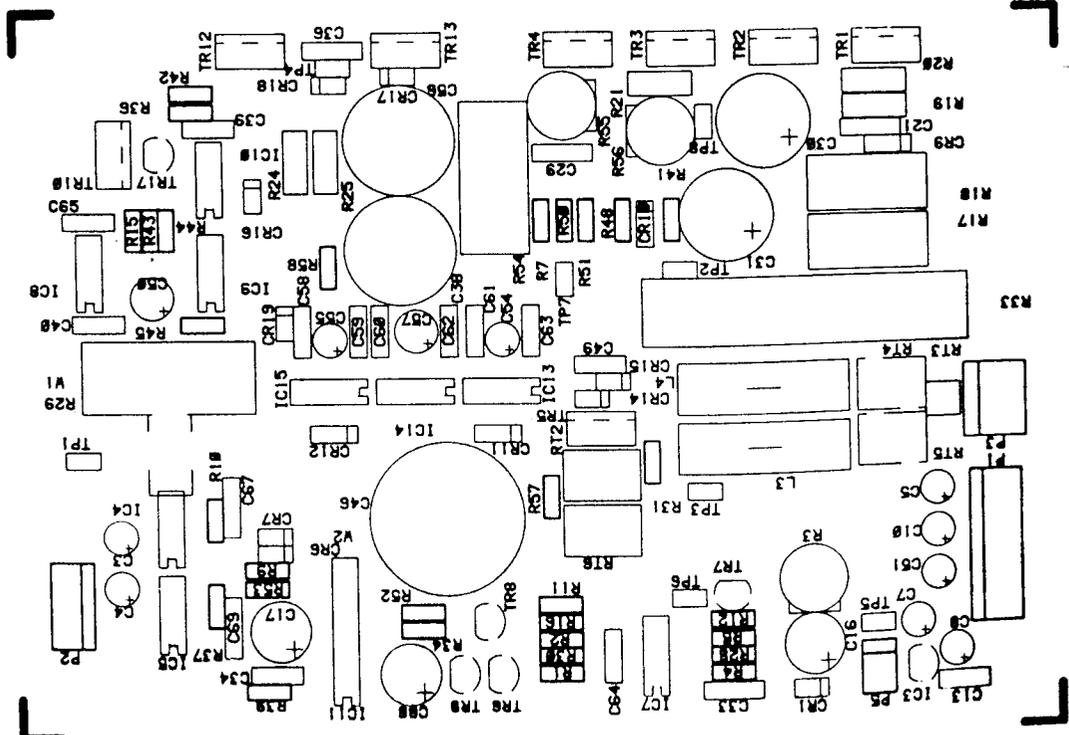
- C69
- C17
- C67
- C50
- TR17
- TR10

- 24G448
- 24G442
- 15C26-3
- 24G464
- 19A33-1
- 41G35
- 41G39
- 24G430
- 69G330
- 14C10-102
- 16G18
- 50C4-10
- 50C5-2:A
- 19A33-1
- 24G442
- 50G26
- 24G482
- 24G448
- 24G407
- 15C26-15
- 24G119
- 15C26-26
- 24G498
- 69G64-B
- 69G401
- 14A38-1003A
- 14A38-2003A
- 50C5-2:A
- 24G126
- 24G448
- 24G482

- 24G138
- 24G442
- 24G154
- 24G407
- 19A33-1
- 19G110

- CAP, RLYTIC, 10UF, 35V, +/- 20%
- CAP, RLYTIC, 100UF, 16V, +/- 20%
- POT, MVPC CERM, 500, 1/2W, 20%
- CAP, DISC, 120PF, 500V, 5%, NPO
- TRANS, NPN, 40V, 200MA, 2N3904
- RELAY, REED, HE3321A1200
- RELAY REED, 712-12
- CAP, RLYTIC, 4.7UF, 450V, +/- 20
- IC, BUFFER, PWR AMP, EL2003
- RES, CARBON, 1K, 2W, 5%
- DIODE, SILICON, 1KV, 1A, 10UA, 4
- DIODE, ZENER, 36V, 30MA, 10%, 47
- DIODE, SIL, 75V, 100MA, .25UA, 4
- TRANS, NPN, 40V, 200MA, 2N3904
- CAP, RLYTIC, 100UF, 16V, +/- 20%
- TRIAC, 25A, 400V, 3020-25
- CAP, MYLAR, .1UF, 50V, 5%, 5MM
- CAP, RLYTIC, 10UF, 35V, +/- 20%
- CAP, RLYTIC, 47UF, 25V, +/- 20%
- POT, MVPC CERM, 1K, 1/2W, 20%
- CAP, DISC, 470PF, 500V, 10%
- POT, MVPC CERM, 25K, 1/2W, 20%
- CAP, RLYTIC, 100UF, 100V, N-POLA
- IC, SW, TRIPLE, 16 PIN, 40538
- IC, OP-AMP, HI-SPEED, LM6361
- RES, MET.F, 1K, 1/4W, 1%, 100PPM
- RES, MET.F, 2K, 1/4W, 1%, 100PPM
- DIODE, SIL, 75V, 100MA, .25UA, 4
- CAP, DISC, .01UF, 200V, 20%, Z5U
- CAP, RLYTIC, 10UF, 35V, +/- 20%
- CAP, MYLAR, .1UF, 50V, 5%, 5MM
- C65 THE LEGEND IS UPSIDE DOWN
- CAP, DISC, 6.8PF, 500V, 10%, NPO
- CAP, RLYTIC, 100UF, 16V, +/- 20%
- CAP, DISC, 6PF, 500V, +/- .5PF,
- CAP, RLYTIC, 47UF, 25V, +/- 20%
- TRANS, NPN, 40V, 200MA, 2N3904
- TRANS, NPN, 300V, 72, 2SC350

5000 Drive Board Legend



Computer Monitor Analyzer CM2125 Block Diagram

