

REPLACEMENT PARTS

MODEL NO 8210
ECON 2066
MCN 5

TRANS DIGITIZER

PRINTED 19-Feb-86
REV DATE 14-Aug-85
MCN DATE 15-Aug-85

LECROY PART NO	DESCRIPTION		
818 210 011	PC B/D SUBASS'Y	8210-	PL:8210-1
818 210 021	PC B/D SUBASS'Y	8210-	PL:8210-2
848 210 011	MECH SUBASS'Y	8210-	PL:8210-3

REPLACEMENT PARTS

ManualsPlus.com

MODEL NO 8210-1
 ECON 1023
 MCN 5
 FAN HIST. NO 2066

ANALOG PCB

PRINTED 19-Feb-86
 REV DATE 14-Aug-85
 MCN DATE 15-Aug-85
 FAN HIST 15-Aug-85

LeCROY PART NO	DESCRIPTION
102 245 103	CAP CERA DISC 25V .01 U PT-FOCL-1/32 LEADS 3/8 AWG 22
102 335 104	CAP CERA CK05 .1 U 50V 20% TC:15% -55C TO +125C
116 305 050	CAP DIP MICA DM5 5 F
116 515 510	CAP DIP MICA DM10 51 F
116 525 102	CAP DIP MICA DM15 1000 F
116 525 621	CAP DIP MICA DM15 620 F
142 824 685	CAP TANT DIP CASE 6.8 U 35V 20% .256 X .374
158 819 001	CAP VARI CERA 3.5 - 18 F BLUE MARK .240 HI .220 DIA
161 335 062	RES CARBON FILM 6.2 OHM 1/4W 5%
161 335 101	RES CARBON FILM 100 OHM 1/4W 5%
161 335 103	RES CARBON FILM 10 1/4W 5%
161 335 131	RES CARBON FILM 130 OHM 1/4W 5%
161 335 134	RES CARBON FILM 130 1/4W 5%
161 335 151	RES CARBON FILM 150 OHM 1/4W 5%
161 335 153	RES CARBON FILM 15 1/4W 5%
161 335 183	RES CARBON FILM 18 1/4W 5%
161 335 201	RES CARBON FILM 200 OHM 1/4W 5%
161 335 202	RES CARBON FILM 2 1/4W 5%
161 335 203	RES CARBON FILM 20 1/4W 5%
161 335 431	RES CARBON FILM 430 OHM 1/4W 5%
161 335 470	RES CARBON FILM 47 OHM 1/4W 5%
161 335 471	RES CARBON FILM 470 OHM 1/4W 5%
161 335 511	RES CARBON FILM 510 OHM 1/4W 5%
161 335 512	RES CARBON FILM 5.1 1/4W 5%
161 335 750	RES CARBON FILM 75 OHM 1/4W 5%
168 531 369	RES PREC RN55D 562 OHM
168 531 395	RES PREC RN55D 825 OHM
168 531 559	RES PREC RN55D 53.6
168 531 591	RFS PREC RN55D 90.9
168 531 680	RFS PREC RN55D 976
181 447 101	RES VARI CERMET 100 OHM 1/2W 10% 3/8"SQ .150 WIDE TOP ADJUST
181 447 501	RES VARI CERMET 500 OHM 1/2W 10% 3/8"SQ .150 WIDE TOP ADJUST
181 457 102	RES VARI CERMET 1 1/2W 10%
200 031 001	IC 2-INPUT NAND SN7400 DIP-14/QUAD PKG 7400
200 031 003	IC 2-INPUT NOR SN7402 DIP-14/QUAD PKG 7402
200 031 029	IC D-TYP FLOP SN74974 DIP-14/DUAL PKG/POS EDG-TR 74974
200 041 052	IC 4-BIT REGST DM74LS173 DIP-16 74LS173
200 041 073	IC 4-BIT CNTR SN74LS160 DIP-16/SYNCH/DIRECT CLR 74LS160
200 071 003	IC 8-BIT REGIST SN74LS37 DIP-20/3-STATE OUTPUTS 74LS374
208 011 011	IC JFET OP AMP TL092C DIP-8 092
208 021 340	IC VOLT REG +15 LM340AT1 TO-220 340
208 122 001	IC VOLT REG NEG LM320T1 TO-220 320
209 119 001	MODULE A/D CONV 4131-3 CASE 2.1 X 3.8 X .41 4131
230 110 005	DIODE SWITCHING 1N444
235 010 005	DIODE RECTIFIER 1N400
235 050 001	DIODE RECTIFIER 1N413
240 425 749	DIODE ZENER 4.3V 1N749 400MW

REPLACEMENT PARTS

ManualsPlus.com

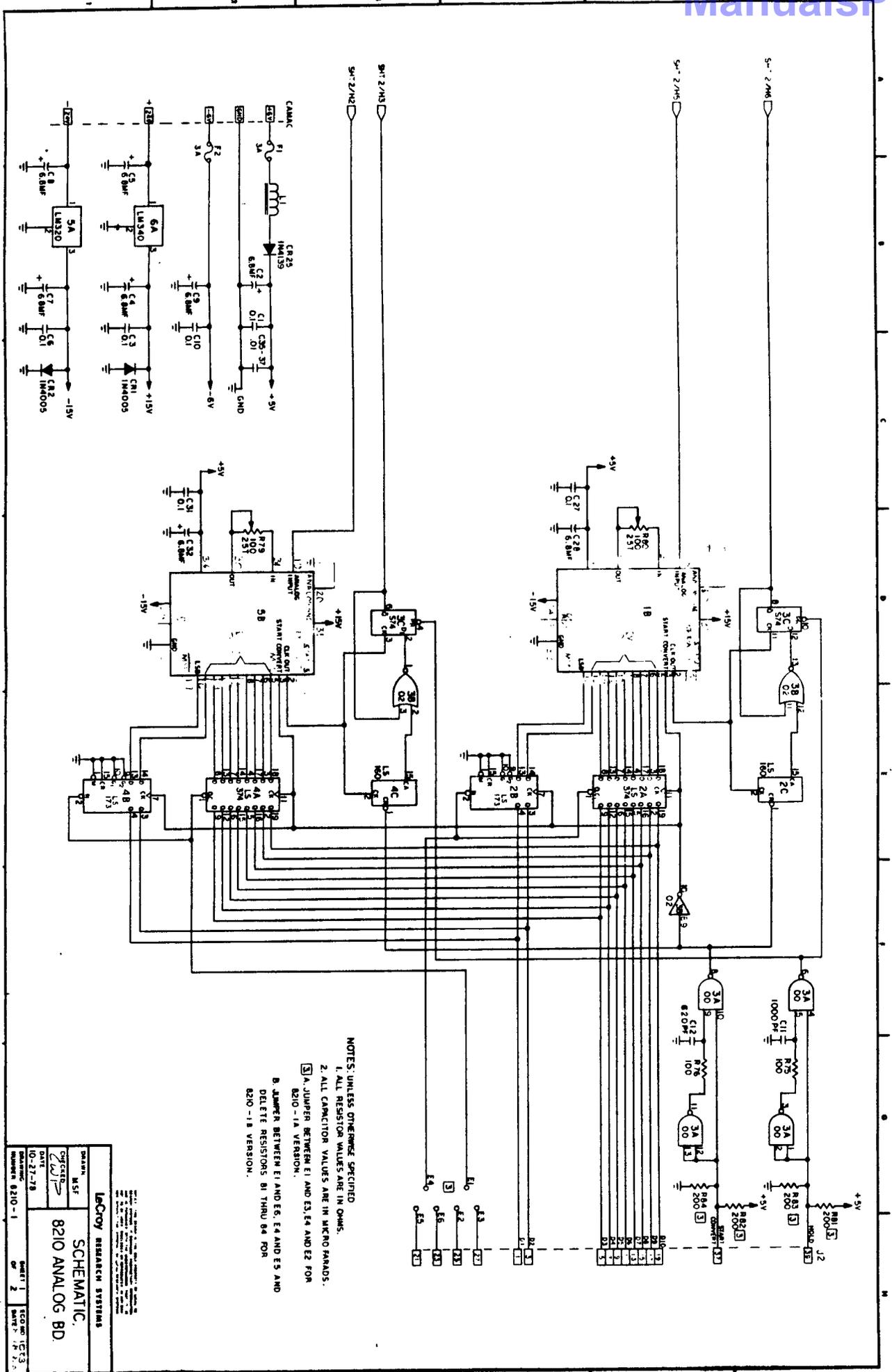
MODEL NO 8210-1
 ECON 1023
 MCN 5
 PAN HIST. NO

ANALOG PCB

2066

PRINTED 19-Feb-86
 REV DATE 14-Aug-85
 MCN DATE 15-Aug-85
 PAN HIST 15-Aug-85

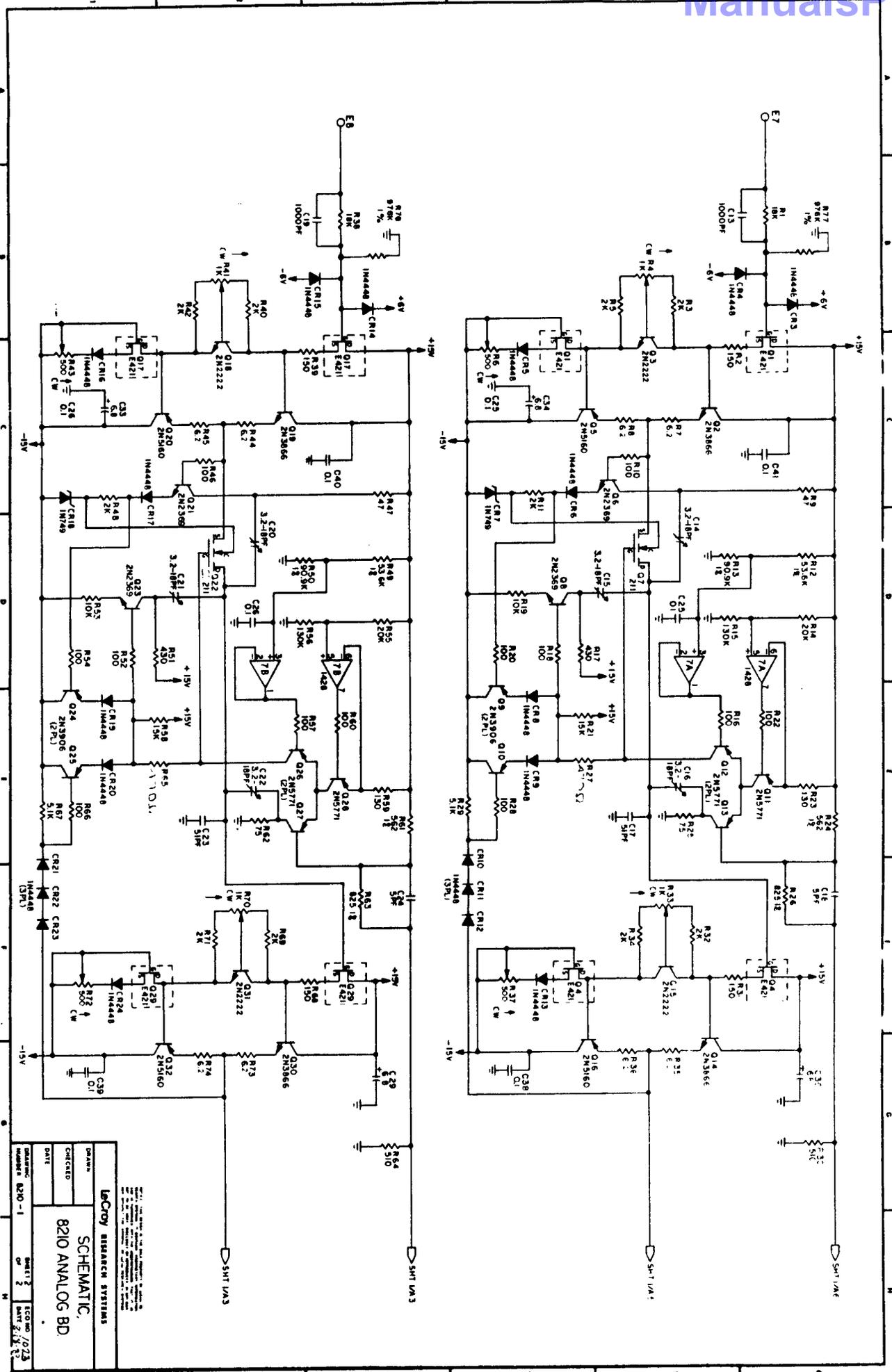
LECROY PART NO	DESCRIPTION
270 110 001	TRANSISTOR NPN PN2369 TO-92 CASE (PLASTIC)
270 110 003	TRANSISTOR NPN 2N2222 TO-18
270 140 001	TRANSISTOR NPN 2N394 TO-39
275 140 001	TRANSISTOR PNP PWR 2N516 TO-39
275 170 002	TRANSISTOR PNP 2N577 TO-92
275 170 906	TRANSISTOR PNP 2N390 TO-92
280 121 211	TRANSISTOR FET "N" SD21 TO-72/MUST BE SPI - DO NOT SUB
280 150 421	TRANSISTORS FET "N" U44 DUAL PKG MATCHED JFETS
300 050 001	CHOKE FERRITE SINGLE LEA
403 170 040	HEADER RT ANGLE 40-PI
405 764 007	SOCKET SINGLE WIRE CLOSE FOR .025 PIN/LO PROFILE/SPRING
433 220 002	FUSE PICO II 125V 3 AM
500 090 001	INSULATOR 2.1X4.1X.009 WHI MYLAR (?)/USED WITH 209 119 001
500 120 002	TRANSIPAD *LARGE
500 860 302	INSULATOR FOR TO-22 SILICONE/THERMAL COND - EL INSUL
505 051 001	HEAT SINK FOR SCR LO PRO BLK ANODIZED ALUMINUM .375 HI
718 210 013	PC RD PREASSY 8210 ANALD 14NOV85 FAB-R ATW-N



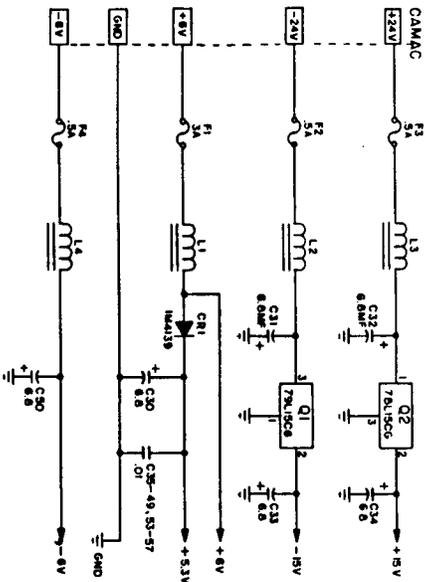
NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTOR VALUES ARE IN OHMS.
 2. ALL CAPACITOR VALUES ARE IN MICRO FARADS.

- A. JUMPER BETWEEN E1 AND E3, E4 AND E2 FOR 8210 - 1A VERSION.
- B. JUMPER BETWEEN E1 AND E6, E4 AND E5 AND DELETE RESISTORS B1 THRU B4 FOR 8210 - 1B VERSION.

LECOY RESEARCH SYSTEMS 2001 N. 10th Street, Suite 100 Lincoln, Nebraska 68502-1000 (402) 441-1111	
DRAWN MSF	SCHEMATIC 8210 ANALOG BD
CHECKED [Signature]	
DATE 10-27-78	
DRAWING NUMBER 8210-1	SHEET 1 OF 2
REVISED 1573	

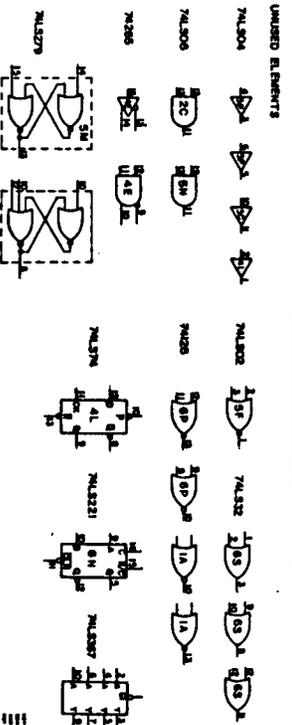


LaCoy RESEARCH SYSTEMS
SCHEMATIC
B210 ANALOG BD.
DRAWN: []
CHECKED: []
DATE: []
REVISION: B210-1
PAGE 2 OF 2
ECONOM 10/23
DATE 2/8/73



NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTOR VALUES ARE IN OHMS
 2. ALL RESISTORS IAW S2
 3. CAPACITOR VALUE SELECTED AT TEST
 4. R1, R2, R3, R4, R5 ARE GND CONNECTION
 FOR COAX CABLES
 5. ALL CAPACITANCE VALUES ARE IN
 MICROFARADS
 6. RESISTOR VALUE SELECTED AT TEST

UNLIDED ELEMENTS



LRS NO.	TYPE	POSITION	+5.1V	GND
200 041 123	7A123	8D, 2L	14	7
200 031 002	7A201	8F	14	7
200 031 028	7A1300	4P	14	7
200 031 029	7A574	3D	14	7
200 031 034	7A500	4F	14	7
200 031 046	7A1300A	8P, 5C, 4I	14	7
200 031 048	7A1374	3A, 3B, 4M, 4L, 4M, 3M, 2N	14	7
200 031 051	7A1302	4G, 5P	14	7
200 031 071	7A1351	3P, 3E	14	7
200 031 072	7A1332	4D, 6S, 6D	14	7
200 031 077	7A1311	2F, 4C	14	7
200 031 082	7A1313	2B	14	7
200 031 086	7A1306	2C, 6N	14	7
200 031 087	7A126	6P, 1A	14	7
200 031 104	7A438	5K	14	7
200 041 006	7A512	3C	14	6
200 041 017	7A1312	5N, 6N, 5L, 6L, 5E	14	6
200 041 026	7A1316	3H, 2M, 2M, 2M	14	6
200 041 037	7A256	4E	14	6
200 041 038	7A1325	5O, 3M, 4N, 6N, 6M	14	6
200 041 040	7A1375	3I	14	6
200 041 050	7A1350	2N	14	6
200 041 052	7A1373	5I	14	6
200 041 057	7A1377	5B	14	6
200 041 059	7A1367	1D	14	6
200 041 046	7A1361	5J	14	6
200 042 007	7A1303	4A	14	6
200 141 123	7A1375	4J	14	6
200 071 001	7A1320	3K	20	10
200 071 002	7A1321	1E	20	10
200 071 003	7A1374	2E, 1K, 1L	20	10
200 081 003	8A03	11, 1H, 1F	24	12
200 081 004	7A1354	3A	24	12
200 081 007	7A1351	3B, 3J	16	6
200 021 004	7A04	1C	14	7
200 021 008	7A1347	1B	14	7

LABOVY RESEARCH SYSTEMS

SCHEMATIC, 8210-2

DIGITAL BOARD

DATE: 10-27-78

DESIGNED BY: RP

CHECKED BY: RP

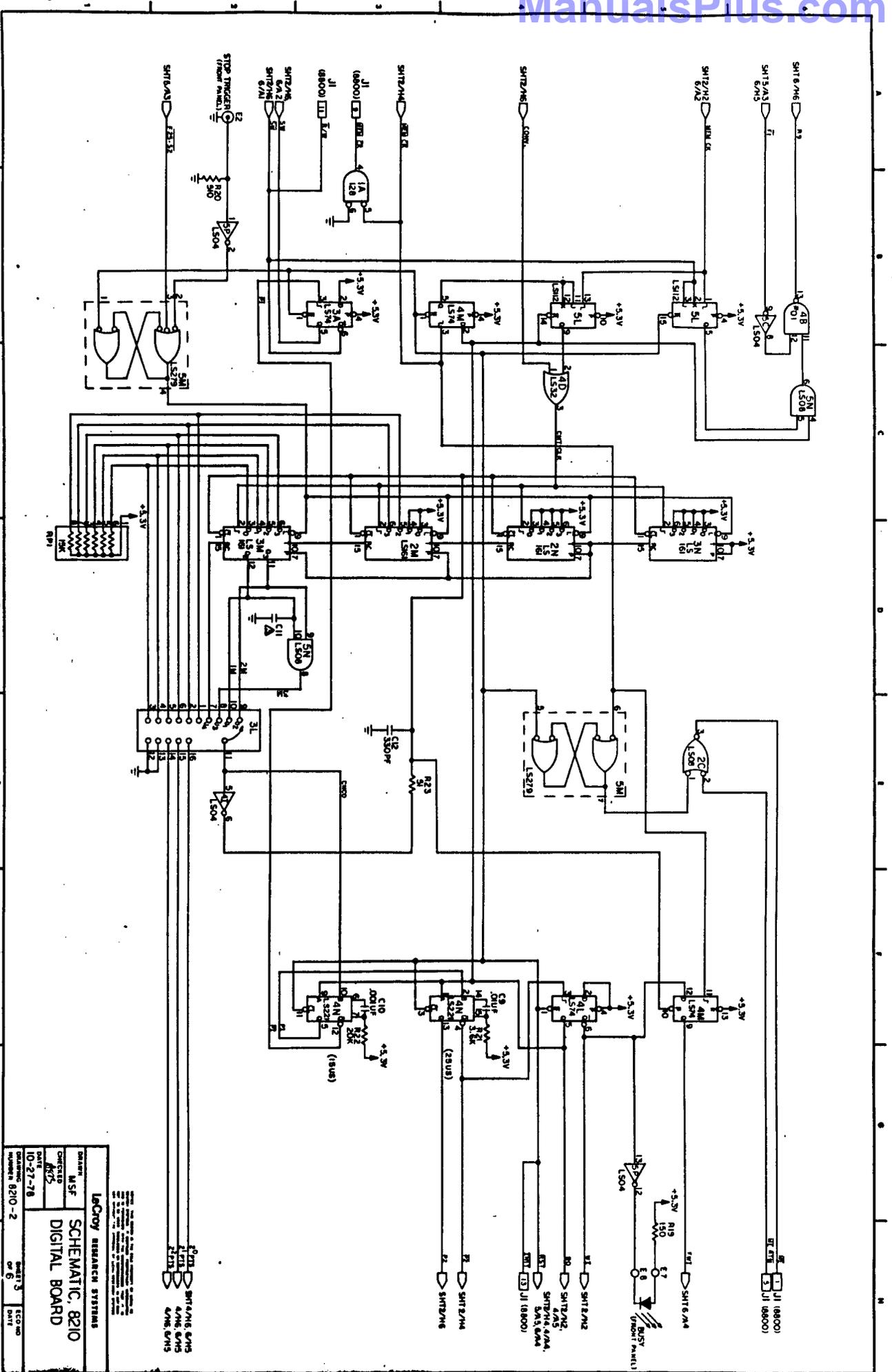
DRWING NUMBER: 8210-2

SHEET: 1

OF 6

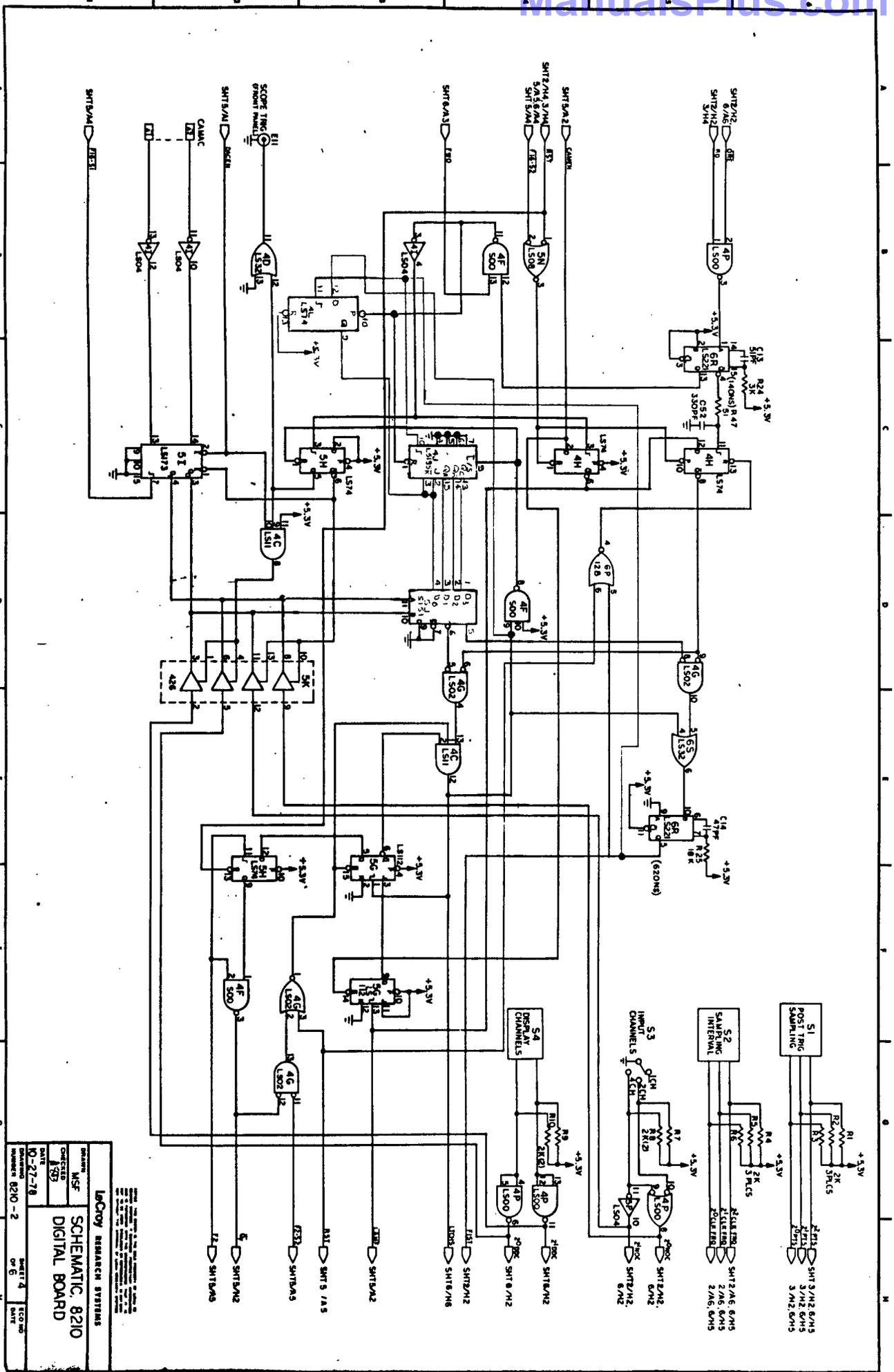
ECO NO: 1027

DATE: 2-17-79

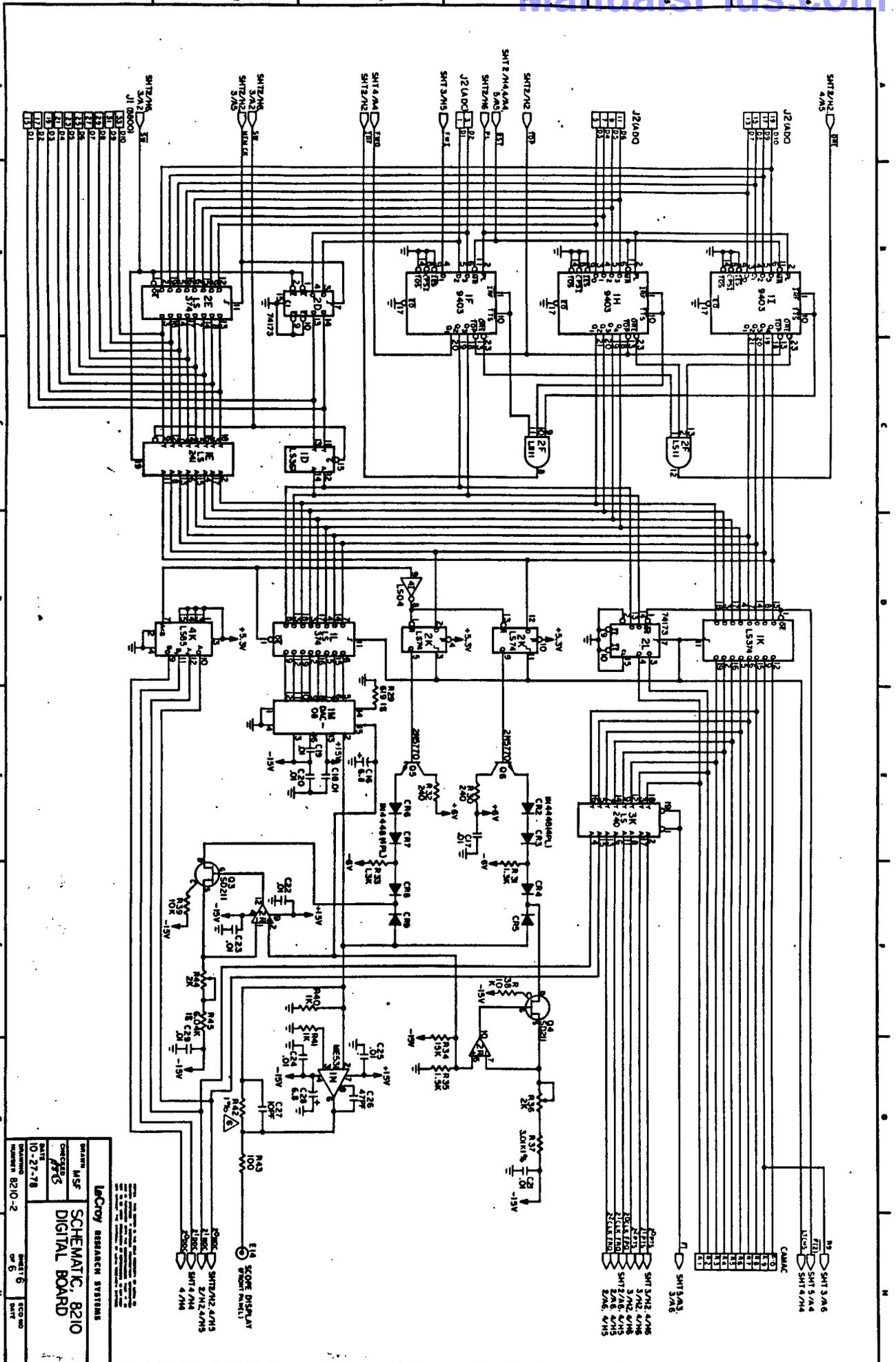


L6400 RESEARCH SYSTEMS	
DESIGNED BY	MSF
CHECKED BY	KTB
DATE	10-27-78
SCHEMATIC	8210
REVISION	8210-2
DRG NO	8210
ECO NO	8210

DATA
KTB
4/16 6/15
4/16 6/15



LACROY RESEARCH SYSTEMS	
DESIGNED BY	MSF
DESIGNED AT	350
DATE	10-27-78
ORDER NUMBER	8210-2
SCHEMATIC 8210	
DIGITAL BOARD	
SWITCH 4	RECORD
of 6	DATE

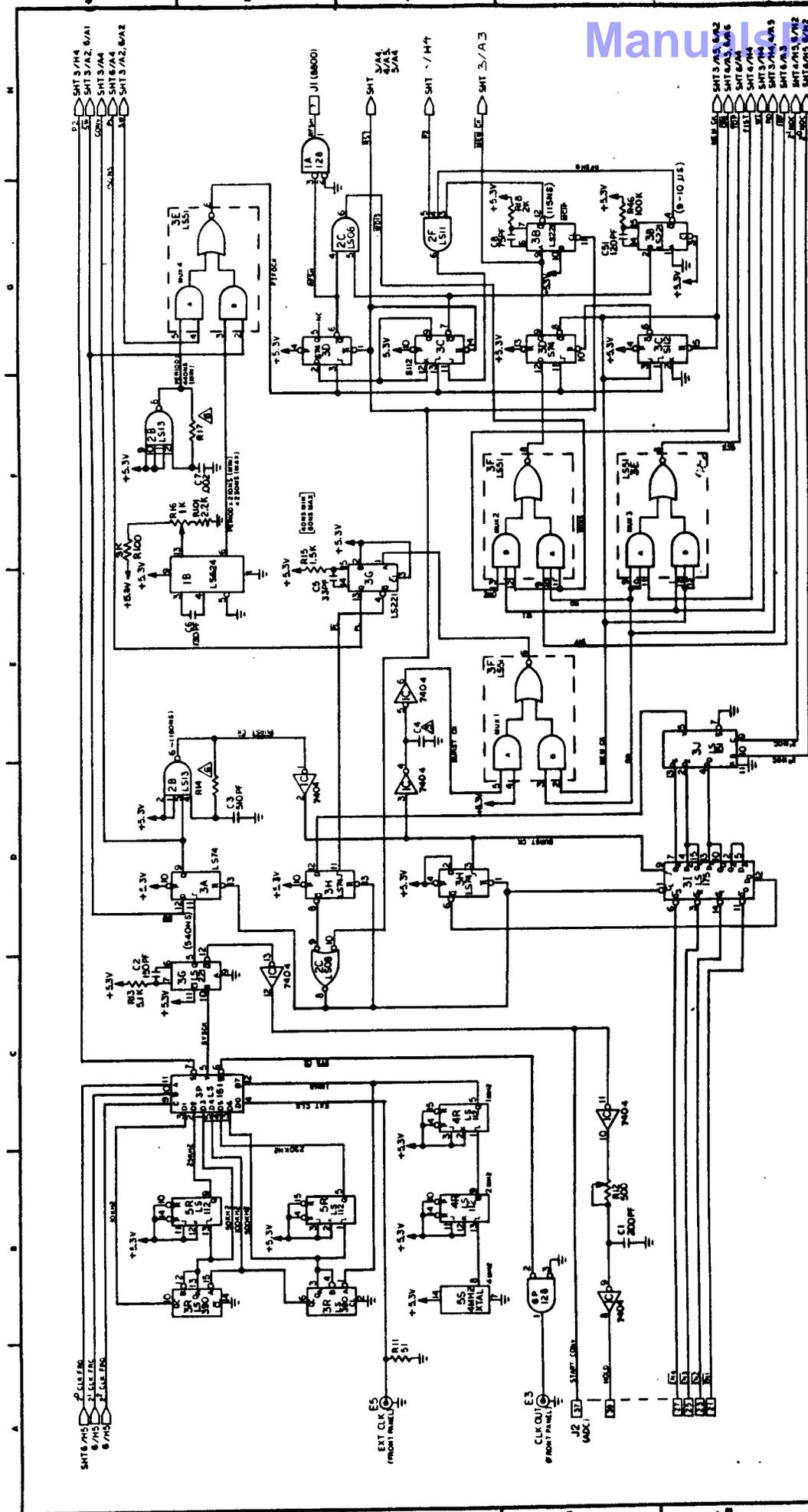


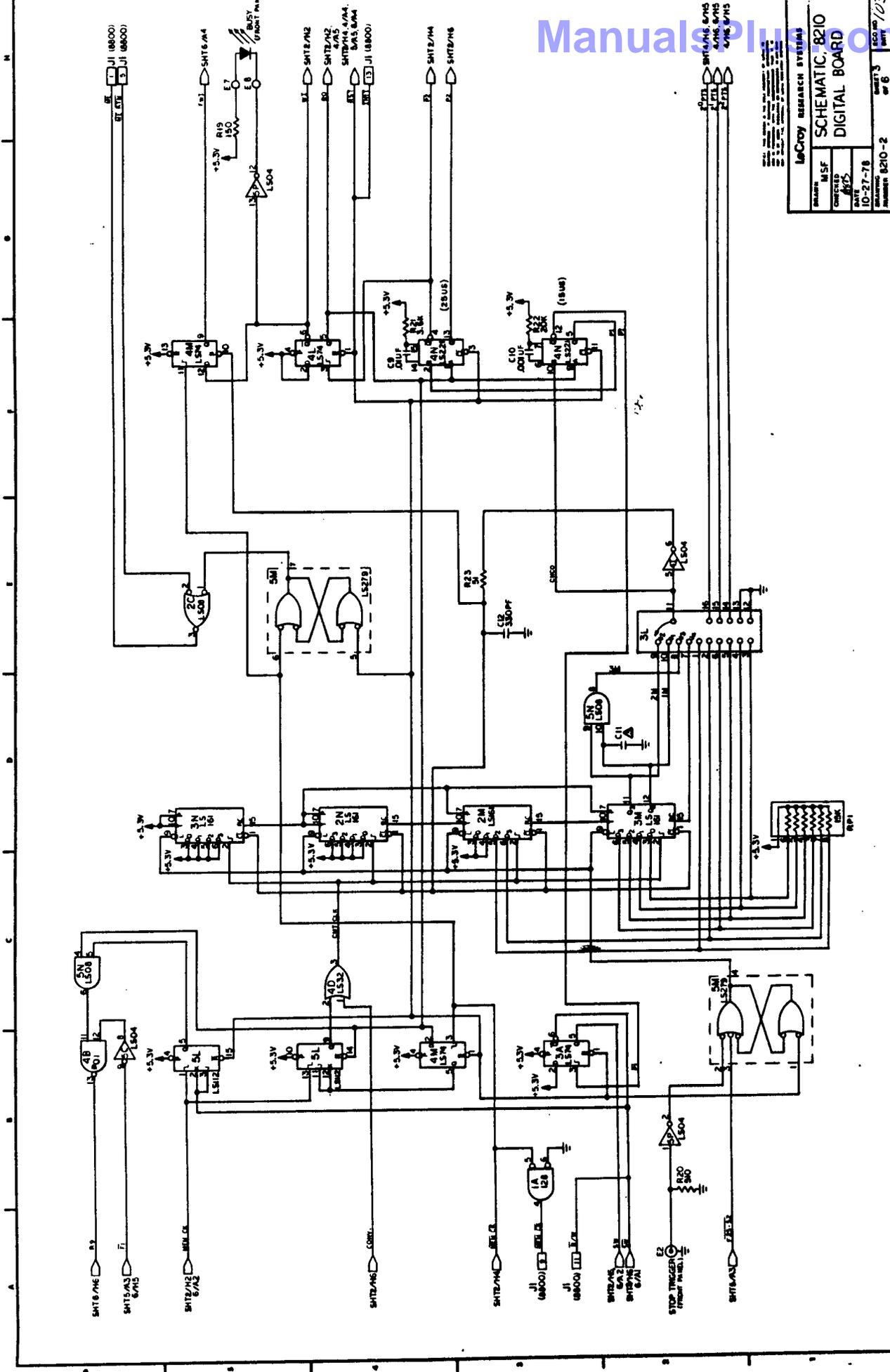
LACROY RESEARCH SYSTEMS
 DRAWING MSF
 CHECKED MSF
 DATE 10-27-78
SCHEMATIC, B210
DIGITAL BOARD
 NUMBER B210-2
 SHEET 6 OF 6
 TECO AND DATE

PART NUMBER	DESCRIPTION	QUANTITY PER
102245103	CAP CERA DISC 25V .01 UF	31
102444470	CAP CERA DISC 100V 47 PF	1
102944100	CAP CERA DISC 1KV 10 PF	1
103437104	CAP CERA MOND 100V .1 UF	8
103626102	CAP CERA MOND 100 .001 UF	3
116305131	CAP DIP MICA DM 5 130 PF	1
116515121	CAP DIP MICA DM10 120 PF	2
116515151	CAP DIP MICA DM10 150 PF	1
116515201	CAP DIP MICA DM10 200 PF	1
116515330	CAP DIP MICA DM10 33 PF	1
116515331	CAP DIP MICA DM10 330 PF	2
116515470	CAP DIP MICA DM10 47 PF	1
116515510	CAP DIP MICA DM10 51 PF	1
116515750	CAP DIP MICA DM10 75 PF	1
116525511	CAP DIP MICA DM15 510 PF	1
142824685	CAP TANI DIP CASE 6.8 UF	9
161335101	RES CARBON FILM 100 OHMS	1
161335102	RES CARBON FILM 1 K	3
161335103	RES CARBON FILM 10 K	2
161335104	RES CARBON FILM 100 K	1
161335132	RES CARBON FILM 1.3 K	2
161335151	RES CARBON FILM 150 OHMS	1
161335152	RES CARBON FILM 1.5 K	1
161335153	RES CARBON FILM 15 K	1
161335183	RES CARBON FILM 18 K	1
161335202	RES CARBON FILM 2 K	11
161335203	RES CARBON FILM 20 K	1
161335222	RES CARBON FILM 2.2 K	1
161335241	RES CARBON FILM 240 OHMS	2
161335302	RES CARBON FILM 3 K	2
161335362	RES CARBON FILM 3.6 K	1
161335391	RES CARBON FILM 390 OHMS	1
161335510	RES CARBON FILM 51 OHMS	3
161335511	RES CARBON FILM 510 OHMS	1
161335512	RES CARBON FILM 5.1 K	1
161335513	RES CARBON FILM 51 K	1
168531373	RES PREC RN55D 619 OHMS	1
168531410	RES PREC RN55D 1.50 K	2
168531439	RES PREC RN55D 3.01 K	1
168531468	RES PREC RN55D 6.04 K	1
181417202	RES VARI CERMET 2 K	2
181457102	RES VARI CERMET 1 K	1
181457501	RES VARI CERMET 500 OHMS	1
190742153	RES NETWORK (7 RES) 15 K	1
200031002	IC 2-INPUT NAND SN7401N	1
200031004	IC HEX INVERTER SN7404N	1
200031028	IC 2-INPUT NAND SN74LS00N	1
200031029	IC D-TYP FLOP SN74S74N	1
200031034	IC 2-INPUT NAND SN74S00N	1
200031046	IC HEX INVERTER SN74LS04N	3
200031049	IC D-TYP FLOP SN74LS74N	7
200031051	IC 2-INPUT NOR SN74LS02N	2
200031071	IC AND-OR-INV 6 SN74LS51N	2
200031073	IC 2-1N POS OR SN74LS32N	3

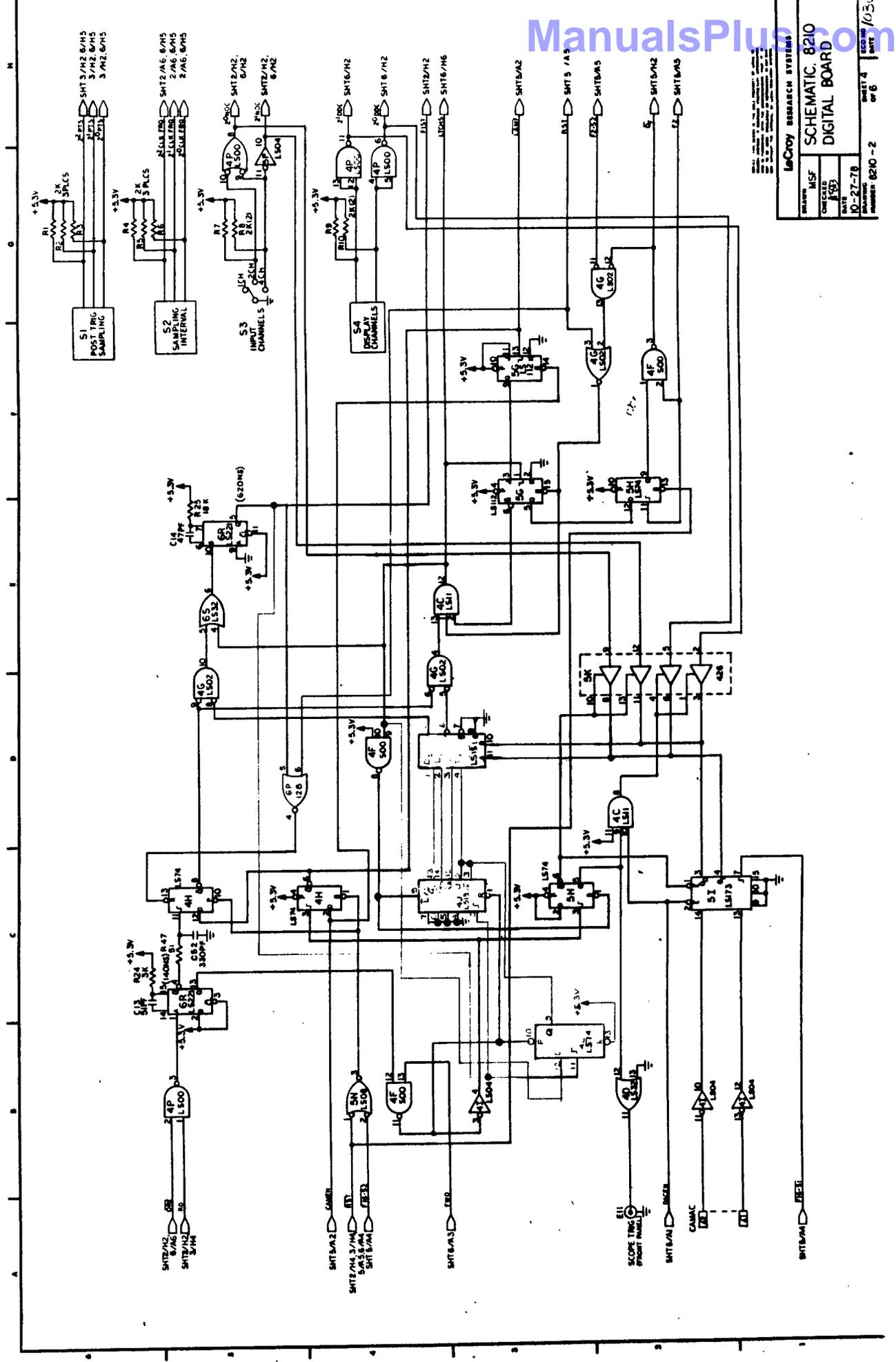
PART NUMBER	DESCRIPTION	QUANTITY PER
200031077	IC 3-INPUT AND SN74LS11N	2
200031082	IC 4-INPUT NAND SN74LS13N	1
200031086	IC 2-INPUT AND SN74LS08N	2
200031087	IC LINE DRIVER SN74128N	2
200031104	IC QUAD GATE SN74426N	1
200041008	IC J-K FLOP SN74S112N	1
200041017	IC J-K FLOP SN74LS112N	5
200041026	IC 4-BIT CTR SN74LS161N	4
200041037	IC COMPL-OUT ELE SN74265N	1
200041039	IC MONO/MULTIPLIER 74LS221	5
200041043	IC 4-BIT MAGNIT SN74LS85N	1
200041049	IC D-TYP FLOP SN74LS175N	1
200041050	IC 4-BIT COUNT SN74LS390N	1
200041052	IC 4-BIT REGST DM74LS173N	1
200041057	IC LATCH SN74LS279N	1
200041059	IC BUS DRIVER SN74LS367N	1
200041173	IC 4-BIT REGISTR SN74173N	2
200042007	IC 13-IN NAND 74LS133PC	1
200071001	IC 8 X BUFFER SN74LS240	1
200071002	IC 8 X BUFFER SN74LS241	1
200071003	IC 8-BIT REGIST SN74LS374	3
200081003	IC FIFO BUFF MEMORY 9403PC	3
200081004	IC DECODER/DEM DM74LS154N	1
200081007	IC MULTIPLEXER SN74LS151	3
200141195	IC SHIFT REG SN74LS195AN	1
208011531	IC SINGLE OP AMP NE531V	1
208031008	IC VOLT CONTR OSC 74LS624	1
208034001	IC DUAL OP AMP UA747	1
208041001	IC 8-BIT DAC MONODAC-08EQ	1
208164001	IC VOLT REG NEG MC79L15CG	1
208164002	IC VOLT REG POS MC78L15CG	1
230110005	DIODE SWITCHING 1N4448	10
235050001	DIODE RECTIFIER 1N4139	1
270170001	TRANSISTOR NPN 2N5770	2
280120211	TRANSISTOR FET *N* SD211	2
300050001	CHOKE FERRITE SINGLE LEAD	4
309010004	CRYSTAL OSCILLATOR 4 MHZ	1
403152040	HEADER RT ANGLE WW 40-PIN	1
403170040	HEADER RT ANGLE 40-PIN	1
405764007	SOCKET SINGLE WIRE CLOSED	8
433220002	FUSE PICO II 125V 3 AMP	1
433220003	FUSE PICO II 125V .5 AMP	3
454316016	HDR (PLATFORM PLUG) DIP-16	1
454901102	COVER FOR PLATFORM DIP-16	1
500120002	TRANSIPAD *LARGE*	2
718210023	PC BD PREASS'Y 8210 DIGIT	1

End of report. 100 Details encountered.





LeCroy RESEARCH SYSTEMS	
MODEL: MSF	SCHEMATIC: 8210
CONNECTOR: MSF	DIGITAL BOARD
DATE: 10-27-78	
DESIGNER: J. J. JONES	
NUMBER: 8210-2	SHEET 3 OF 6

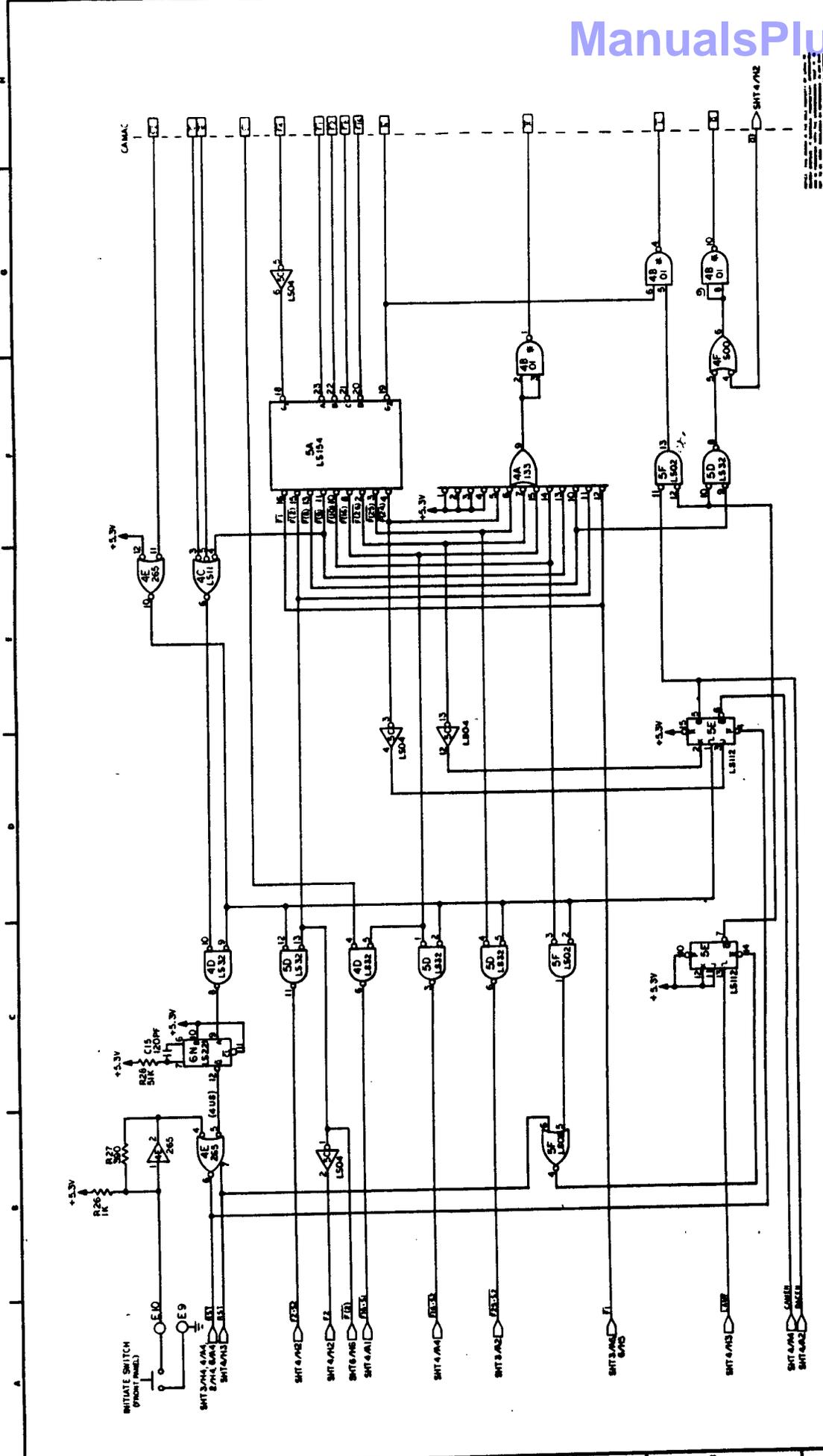


McGraw Hill Research Systems

DESIGNED BY	MSF
CHECKED BY	FSB
DATE	02-27-78
NUMBER	8210 - 2

**SCHEMATIC, 8210
DIGITAL BOARD**

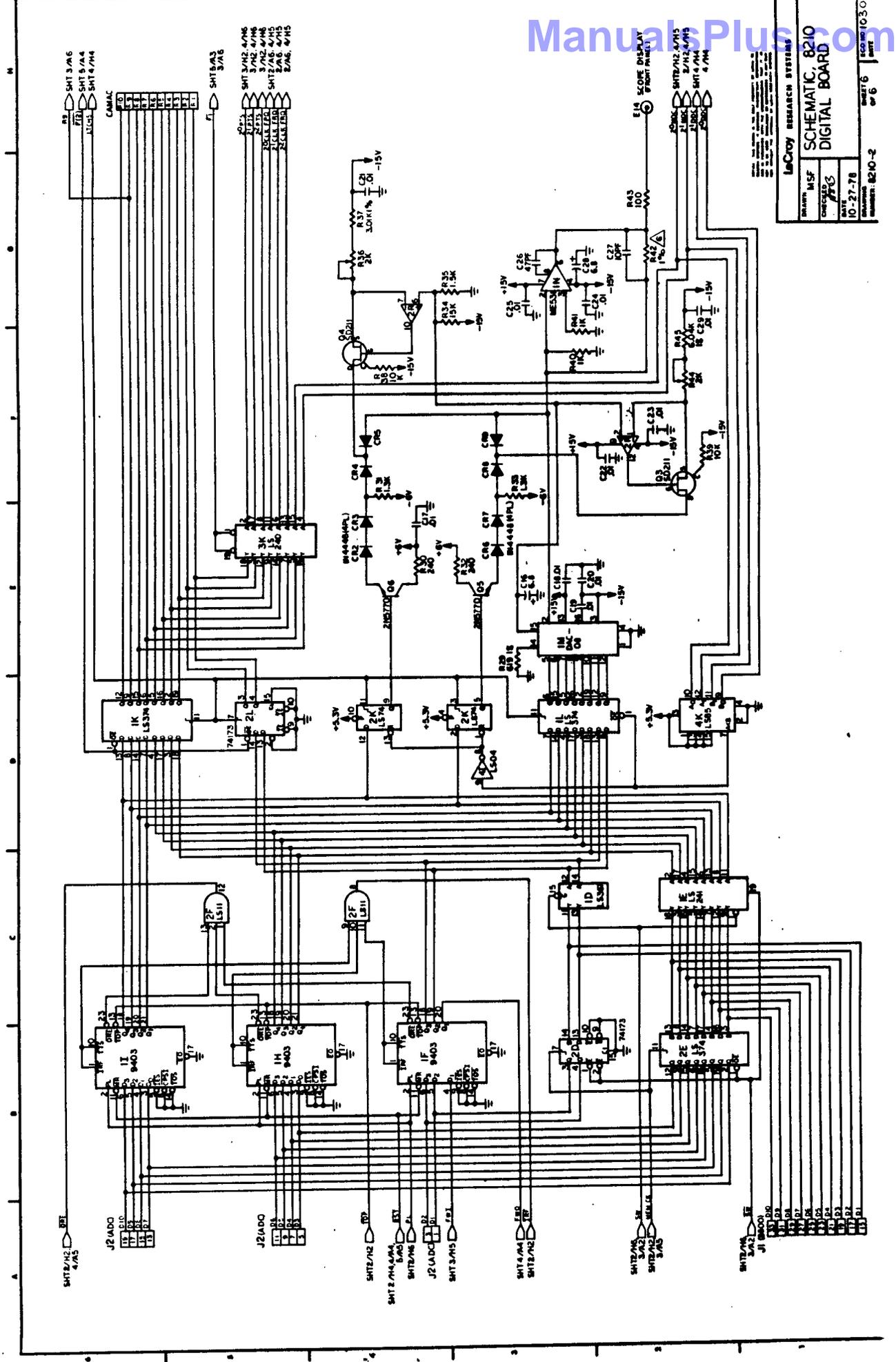
Sheet 4 of 6



LACROIX RESEARCH SYSTEMS	
DESIGNED BY	MSF
CHECKED BY	ATTS
DATE	10-27-78
DRAWING NUMBER	8210-2
SHEET	5
OF	6
REVISED BY	MSF
DATE	10/27/78

SCHEMATIC, 8210
DIGITAL BOARD

8210-2



REPLACEMENT PARTS

ManualsPlus.com

MODEL NO 8210-3
 ECON 1010
 MCN 6
 FAN HIST. NO

MECHANICAL 8210

2061

PRINTED 19-Feb-86
 REV DATE 11-Feb-83
 MCN DATE 07-Oct-85
 FAN HIST 07-Oct-85

LECROY PART NO	DESCRIPTION
256 250 200	LED CLR RED SUPER-BRIGHT
402 030 000	CONNECTOR CO-AXIAL LEM
402 030 002	SPANNER NUT SMALL OD LEM
402 030 003	GROUND LUG NONLOCK LEM
402 030 066	INSUL WASHER LEMO BL
403 010 040	CORN KIT FLAT CABL 40-PIN OPEN END COVER WITH STRAIN RELIEF
403 910 050	TAB FOR 28 TO 50-PIN CON 3366/3367/3417/3441/3489/3489/3508
412 022 013	SWITCH ROTARY RCD 0 TO STACKPOLE 73-8154 (315 DEGREE FLAT)
412 023 020	SWITCH ROTARY RCD 0 TO STACKPOLE 73-8152 SEE BELOW *****
412 123 001	SWITCH ROTRY 1P3T 73-897 PC TERMINALS 3/8" SHAFT
416 132 003	SWITCH PR(SM BLK CAP)SPD PC TERMINALS
519 110 002	BUSHING LED BLK MP 5
536 142 004	KNOR ASSY, 3-PIECE BLAC
540 203 001	SIDE COVER CAMAC STD(LIP) 06DEC85 FAB-K
540 206 078	RAIL CAMAC STD TOP W/LI 04DEC85 FAB-C
540 206 079	RAIL CAMAC HINGED STD TO 04DEC85 FAB-C
540 206 080	RAIL CAMAC HINGED STD BO 04DEC85 FAB-C
540 206 178	RAIL CAMAC STD BOT W/LI 04DEC85 FAB-C
540 209 103	REAR PANEL CAMAC SIZE 04DEC85 FAB-F
555 430 003	CAPTIVE SCREW ASSEMBLY MOD: KNOR .500 LONG
592 030 040	CABLE FLAT AWG 28 40-CON .050 CENTERS/GRAY PVC W/RED EDGE
708 210 001	SPECIAL MOD SHIELD 821 18NOV85 FAB-D
728 210 013	FRONT PNL PREASS'Y 821 18NOV85 FAB-E ATW-D
738 210 013	SIDE COVER LEFT 821 18NOV85 FAB-C ATW-C
768 210 021	RAIL CAMAC (TOP) 8210- 18NOV85 FAB-C