

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 BD SUBASS'Y	8210-	PL:8210-1
818	210	021	PC RD SUBASS'Y	8210-	PL:8210-2
848	210	011	MECH SUBASS'Y	8210-	PL:8210-3

REPLACEMENT PARTS

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

ANALOG PCB

2066

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 P
116 515 510	CAP DIP MICA DM10 51 P
116 525 102	CAP DIP MICA DM15 1000 P
116 525 621	CAP DIP MICA DM15 620 P
142 824 685	CAP TANT DIP CASE 6.8 U 35V 20% .256 X .374
158 819 001	CAP VARI CERA 3.5 - 18 P 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
168 531 385	RES PREC RN55D 825 OHM
168 531 559	RES PREC RN55D 53.6
168 531 581	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 SN74874 DIP-14/DUAL PKG/POS EDG-TR 74874
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 SN74LS374 DIP-20/3-STATE OUTPUTS 74LS374
208 011 011	IC JFET OP AMP TL082C DIP-8 082
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

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

ANALOG PCB

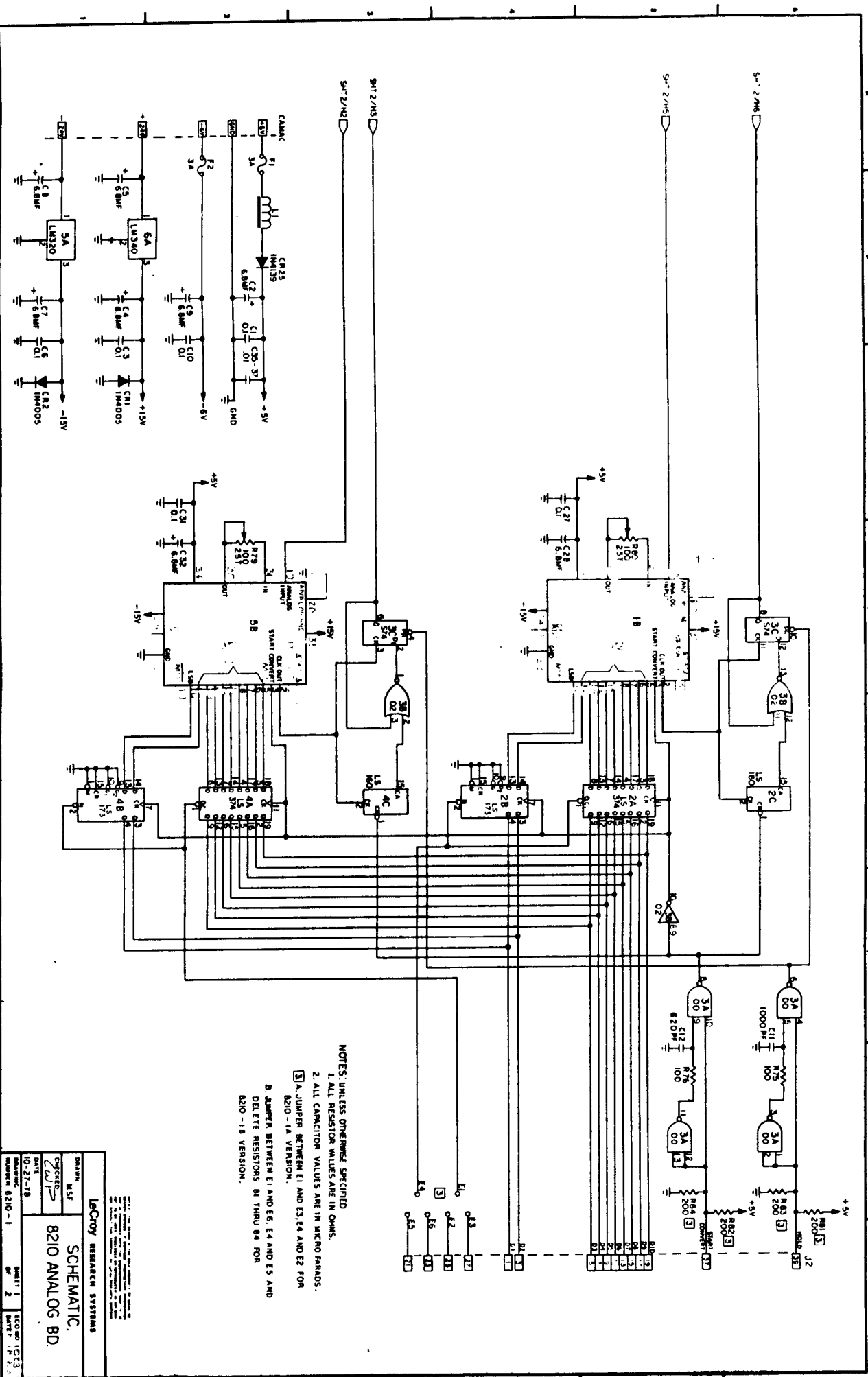
2066

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

LECROY PART NO

DESCRIPTION

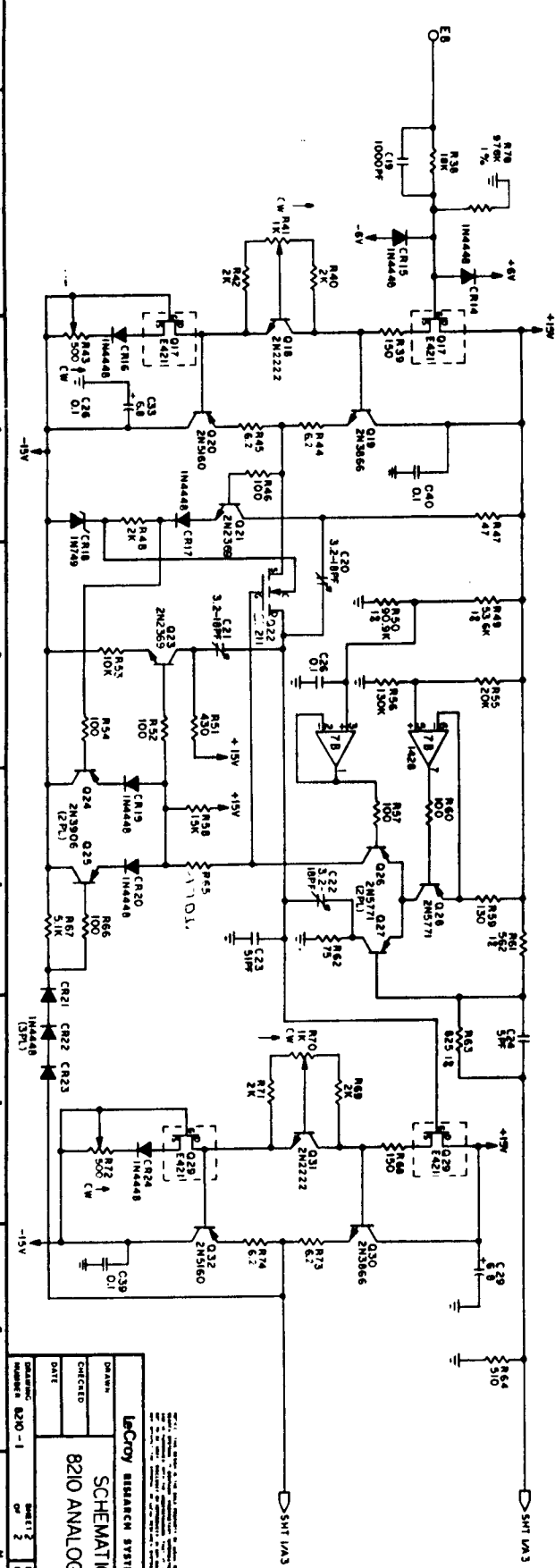
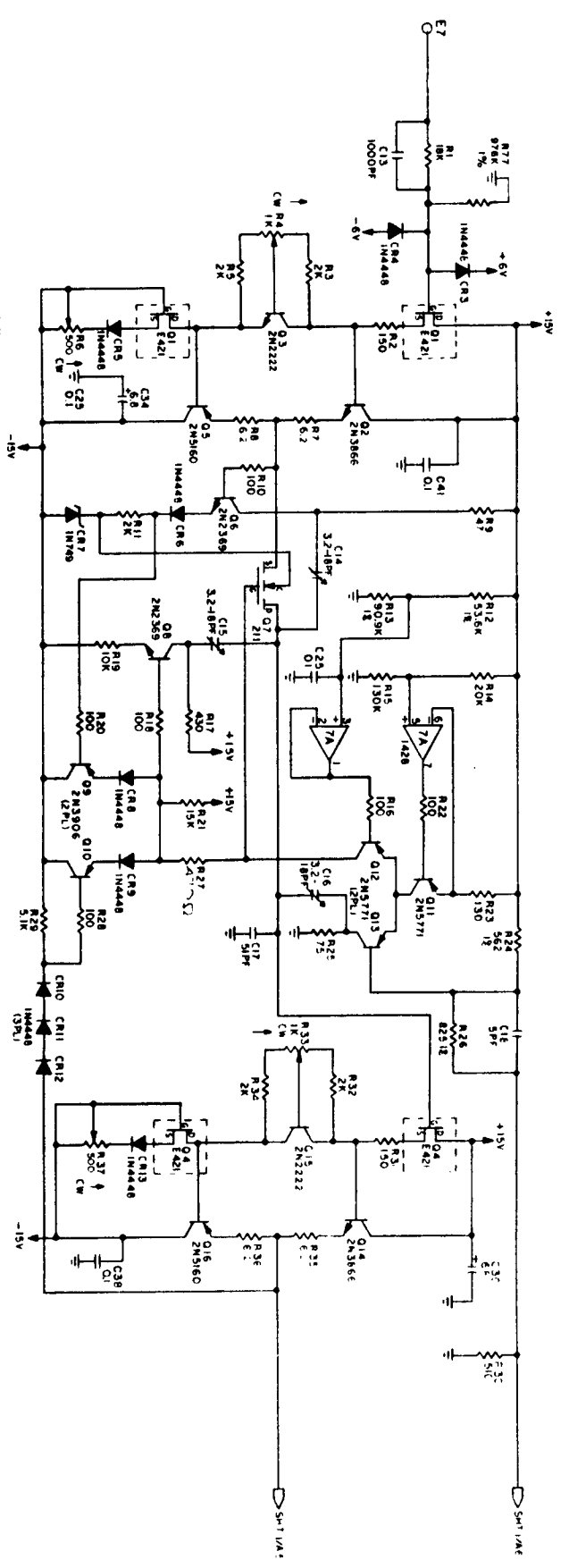
270	110	001	TRANSISTOR NPN	PN2369	TO-92 CASE (PLASTIC)
270	110	003	TRANSISTOR NPN	2N2222	TO-18
270	140	001	TRANSISTOR NPN	2N394	TO-39
275	140	001	TRANSISTOR PNP PWR	2N516	TO-39
275	170	002	TRANSISTOR PNP	2N577	TO-92
275	170	906	TRANSISTOR PNP	2N390	TO-92
280	121	211	TRANSISTOR FET "N"	SD21	TO-72/MUST 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 ANALO	14NOV85	FAB-R ATW-N



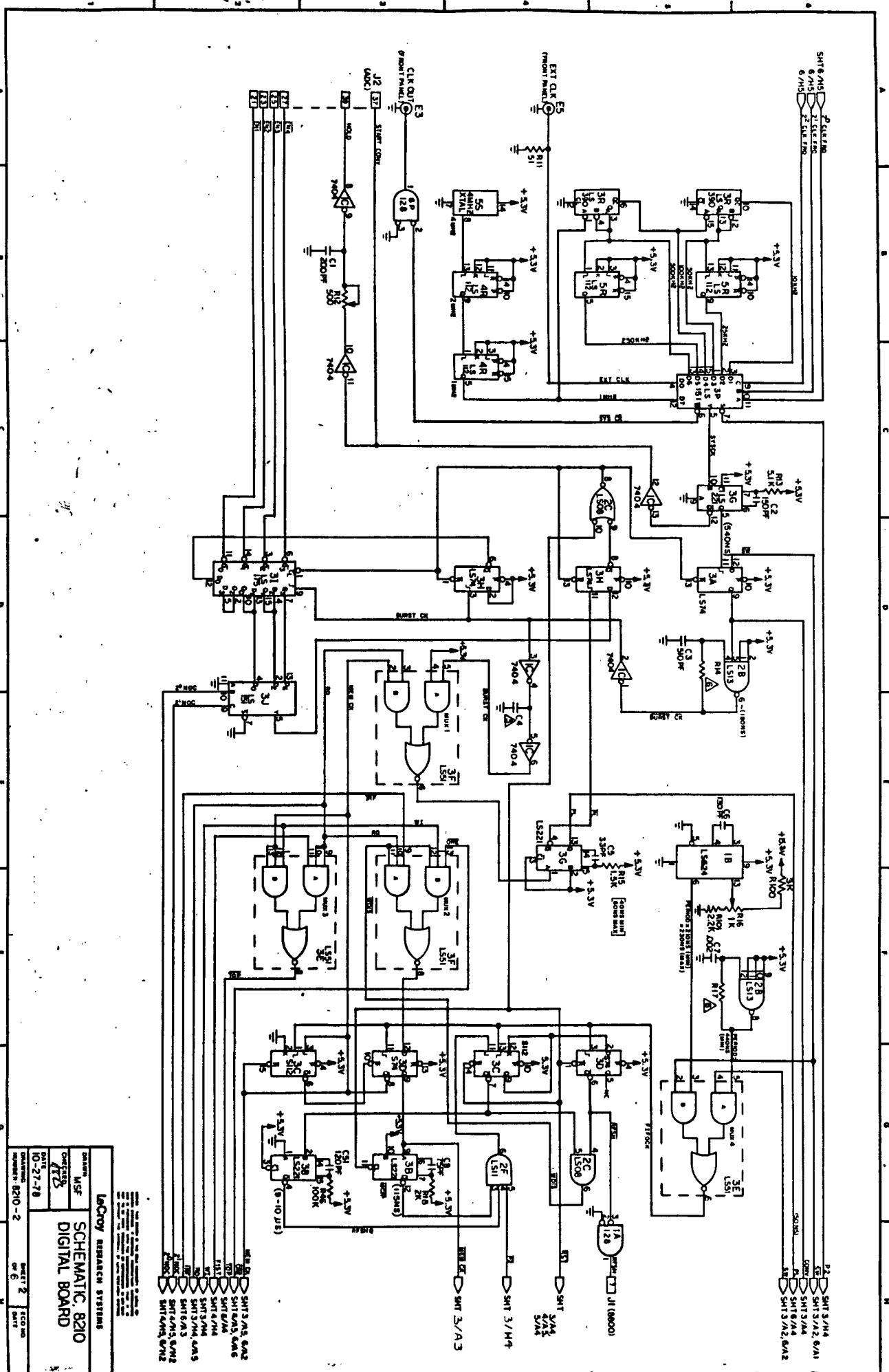
NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTOR VALUES ARE IN OHMS.
 2. ALL CAPACITOR VALUES ARE IN MICROFARADS.

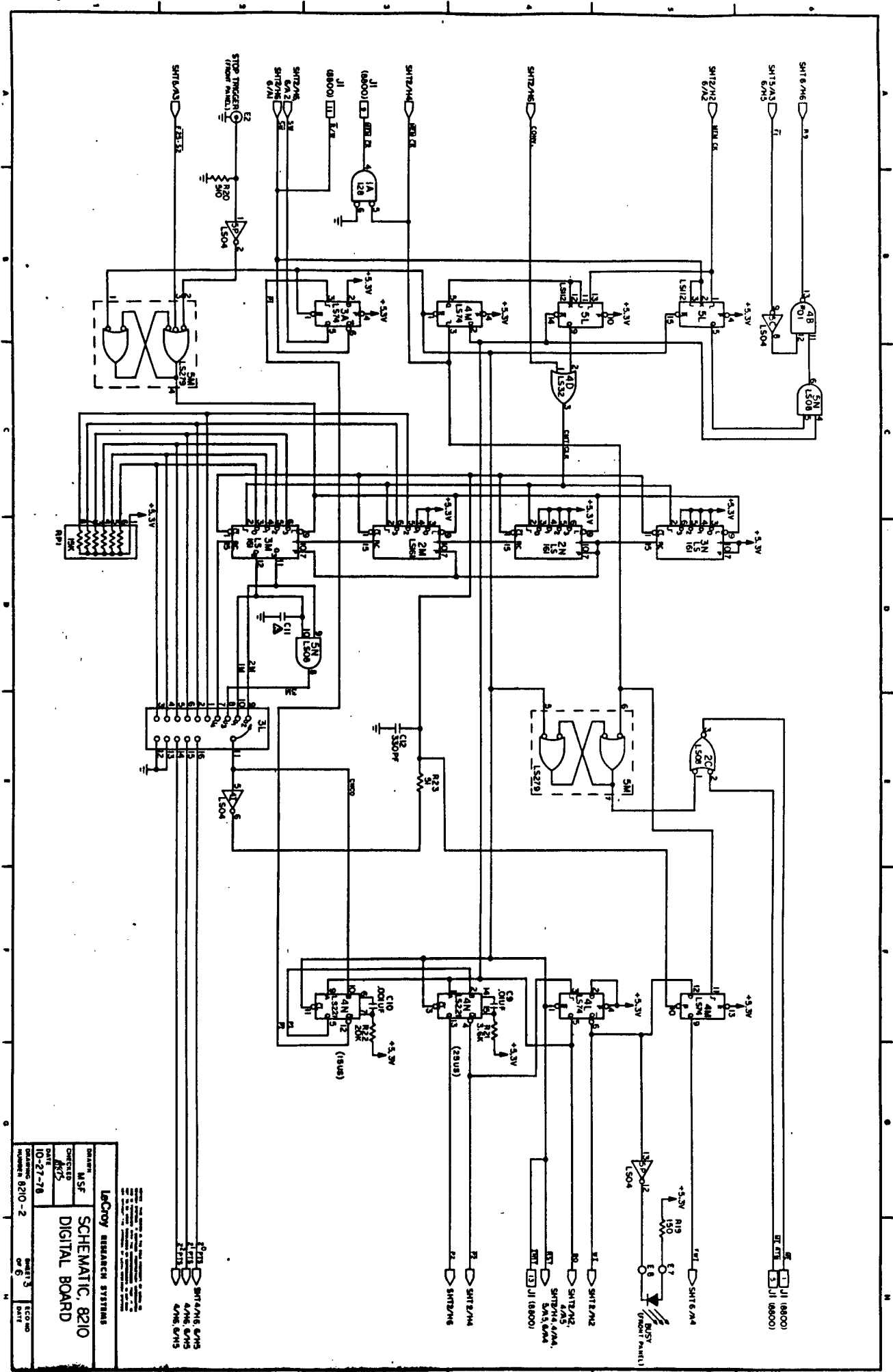
- 3. A. JUMPER BETWEEN E1 AND E3, E4 AND E2 FOR 8210-1A VERSION.
- B. JUMPER BETWEEN E1 AND E6, E4 AND E5 AND DELETE RESISTORS R1 THRU R4 FOR 8210-1B VERSION.

LACROY RESEARCH SYSTEMS 1000 WEST 10TH AVENUE DENVER, COLORADO 80202	
DRAWN MSF CHECKED DATE 10-27-78	SCHEMATIC 8210 ANALOG BD
DRAWING NUMBER 8210-1	SHEET 1 OF 2 ECO NO. 1573 DATE 10-27-78

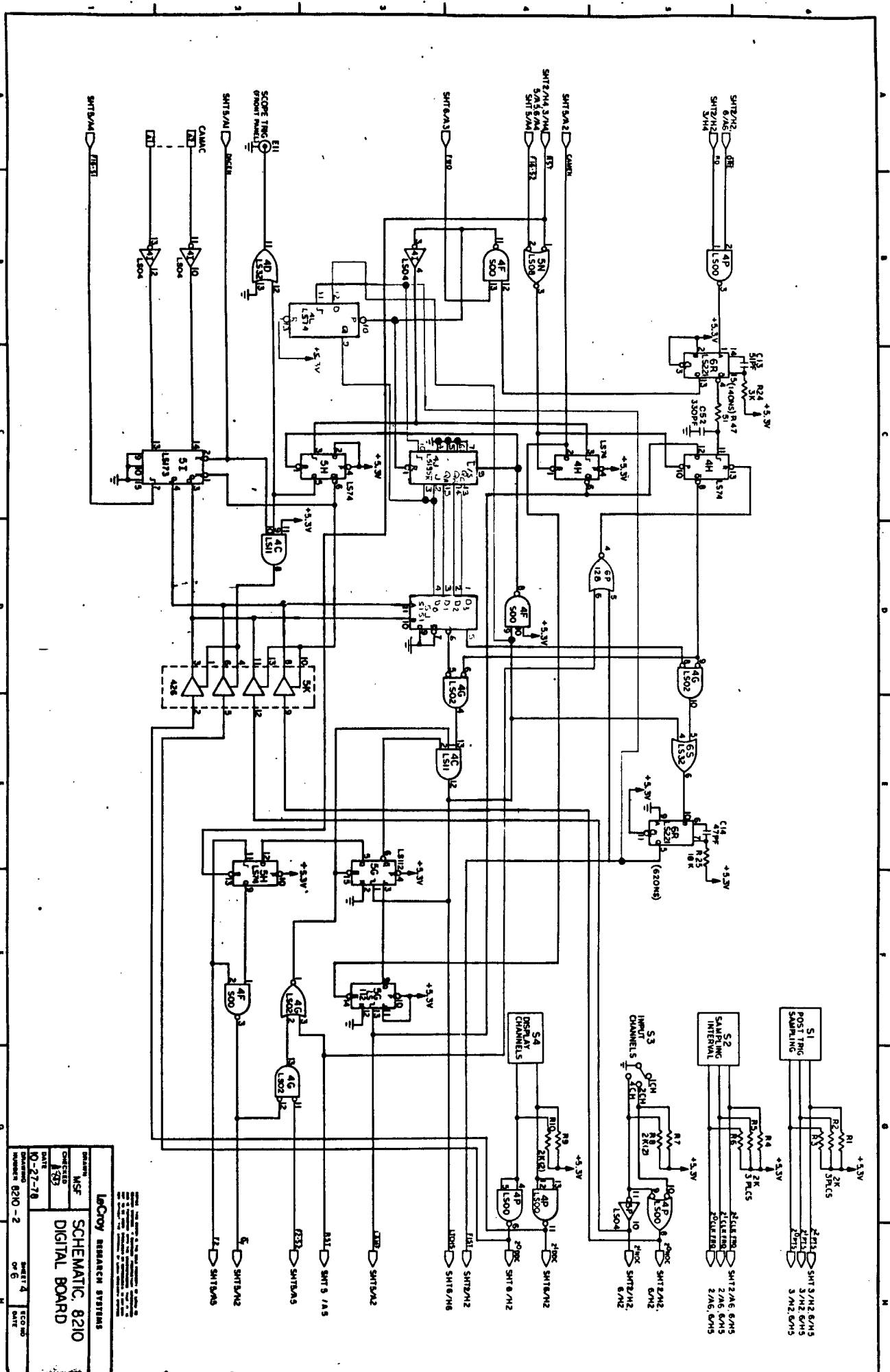


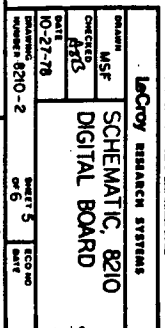
DRAWN: SCHEMATIC
 CHECKED: 8210 - 1
 DATE: 10/23
 SHEET 2 OF 2
 DATE: 10/23

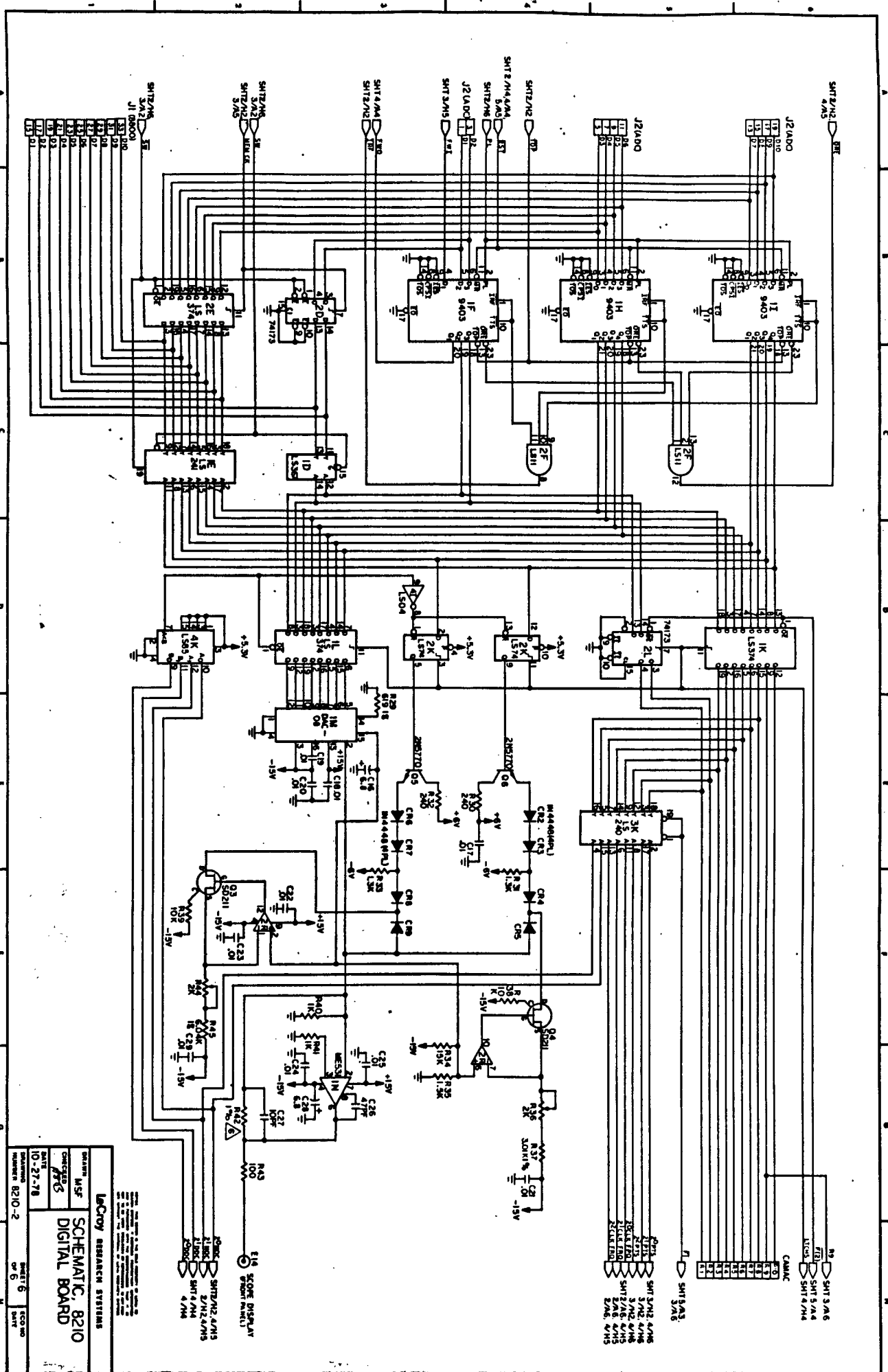




LACROY RESEARCH SYSTEMS	
SCHEMATIC: 8210	
DIGITAL BOARD	
DATE	10-27-78
CHECKED	MSF
DESIGNED	MSF
REVISION	8210-2
BY	MSF
DATE	10-27-78





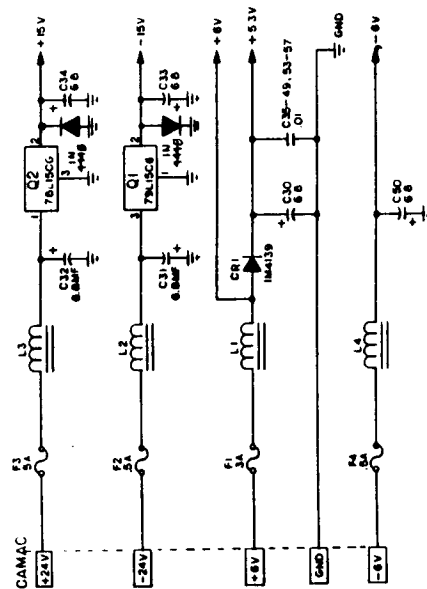


DRAWN MSF
 CHECKED PMS
 DATE 10-27-78
 SCHEMATIC, B210
 DIGITAL BOARD
 LACROIX RESEARCH SYSTEMS
 NUMBER B210-2
 SHEET 6 OF 6
 TCO END
 DATE

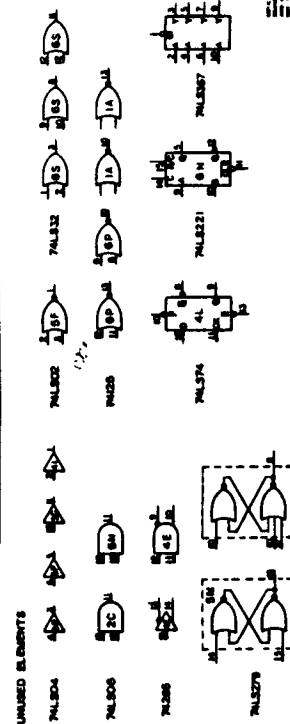
PART NUMBER	DESCRIPTION	QUANTITY PER
102245103	CAP CERA DISC 25V .01 UF	31
102444470	CAP CERA DISC 100V 47 PF	1
102944100	CAP CERA DISC 1KV 10 PF	1
103437104	CAP CERA MONO 100V .1 UF	8
103626102	CAP CERA MONO 100 .001 UF	3
116305131	CAP DIP MICA DM 5 130 PF	1
116515121	CAP DIP MICA DM10 120 PF	2
116515151	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 TANT 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 RUAD 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/MULTIVIB N74LS221	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 MEMRY 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 MC79L15C6	1
208164002	IC VOLT REG POS MC78L15C6	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

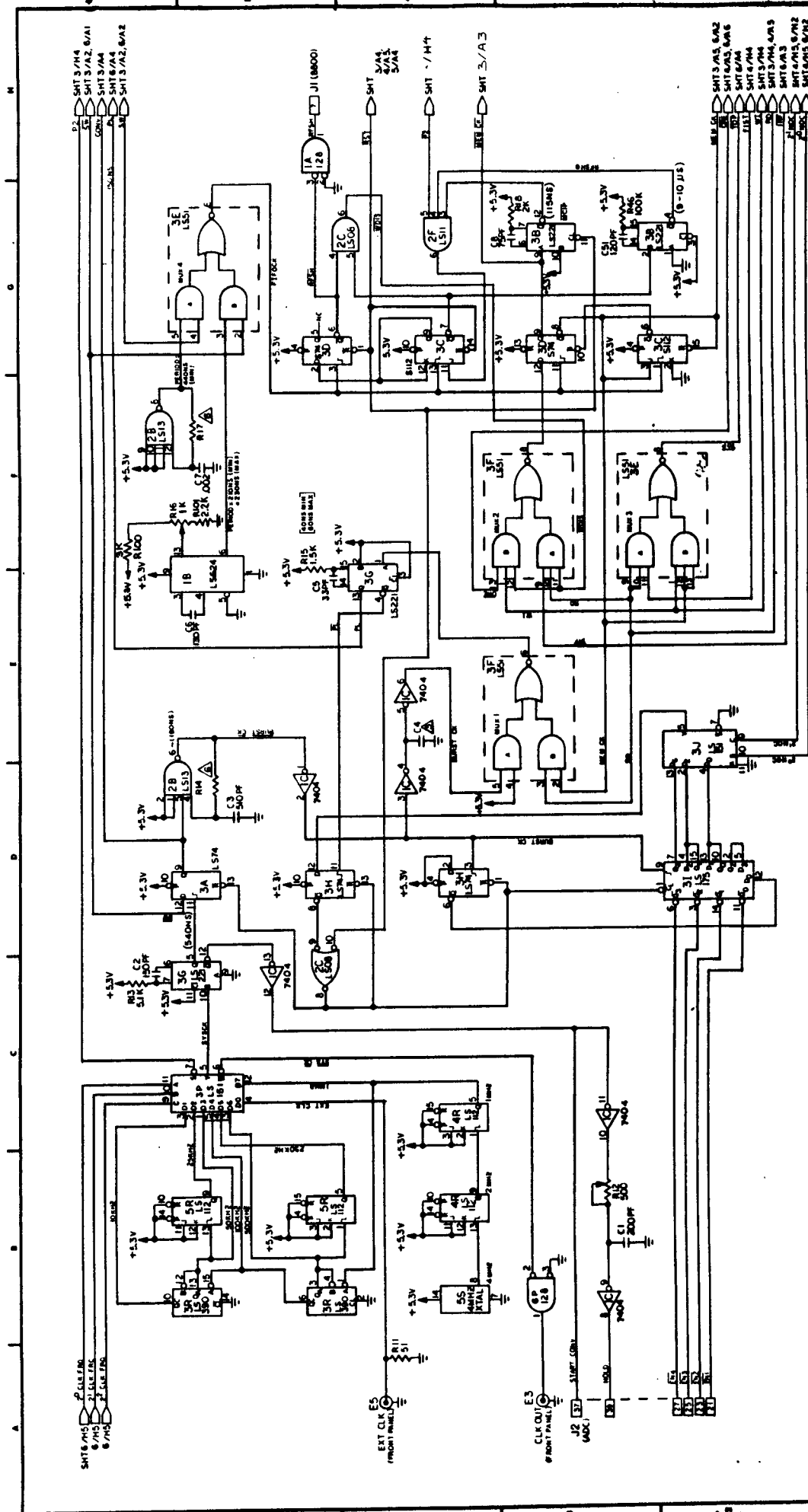
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LES NO.	TYPE	POSITION	+ΔV	GND
200 031 173	74173	2D, 2L	14	7
200 031 002	74101	4B	14	7
200 031 026	741300	4P	14	7
200 031 028	74374	3D	14	7
200 031 034	74300	4P	14	7
200 031 046	741304	BP, SC, AJ	14	7
200 031 049	741374	1A, 3B, 4B, 4C, 4D, 5B, 2K	14	7
200 031 081	741302	4C, 8F	14	7
200 031 071	741351	3F, 3E	14	7
200 031 073	741332	4D, 4B, 5D	14	7
200 031 077	741311	2F, 4C	14	7
200 031 082	741313	2B	14	7
200 031 085	741308	2C, 5B	14	7
200 031 087	741276	6P, 1A	14	7
200 031 104	74628	6P, 1A	14	7
200 041 008	741312	5B, 4B, 5B, 6E	16	6
200 041 017	741312	5B, 4B, 5B, 6E	16	6
200 041 026	741316	3A, 3B, 2A, 2B	16	6
200 041 037	74265	4E	16	6
200 041 039	741321	3B, 4B, 6B, 6E	16	6
200 041 049	741371	31	16	6
200 041 050	741380	3R	16	6
200 041 052	741373	51	16	6
200 041 057	741379	5B	16	6
200 041 058	741387	1D	16	6
200 041 048	741376	8J	16	6
200 042 007	741303	4A	16	6
200 042 007	741303	4A	16	6
200 071 001	741502	4J	20	10
200 071 002	741374	3R	20	10
200 071 003	741374	1E	20	10
200 071 003	741374	2E, 1R, 1L	20	10
200 071 003	74032	11, 1H, 1F	24	12
200 081 004	741316	5A	24	12
200 081 007	741311	3P, 3J	16	6
200 081 008	74043	1C	14	7
200 081 008	741316	1C	14	7



NOTES: UNLESS OTHERWISE SPECIFIED
 1 ALL RESISTOR VALUES ARE IN OHMS
 2 ALL RESISTORS 1/4W 02
 3 CAPACITOR VALUE SELECTED AT TEST
 4 604, 6, 12, 13 ARE SMD CONNECTION
 FOR COAX CABLES
 5 ALL CAPACITANCE VALUES ARE IN
 MICROFARADS
 6 RESISTOR VALUE SELECTED AT TEST



LeCroy Research Systems

SCHEMATIC 8210

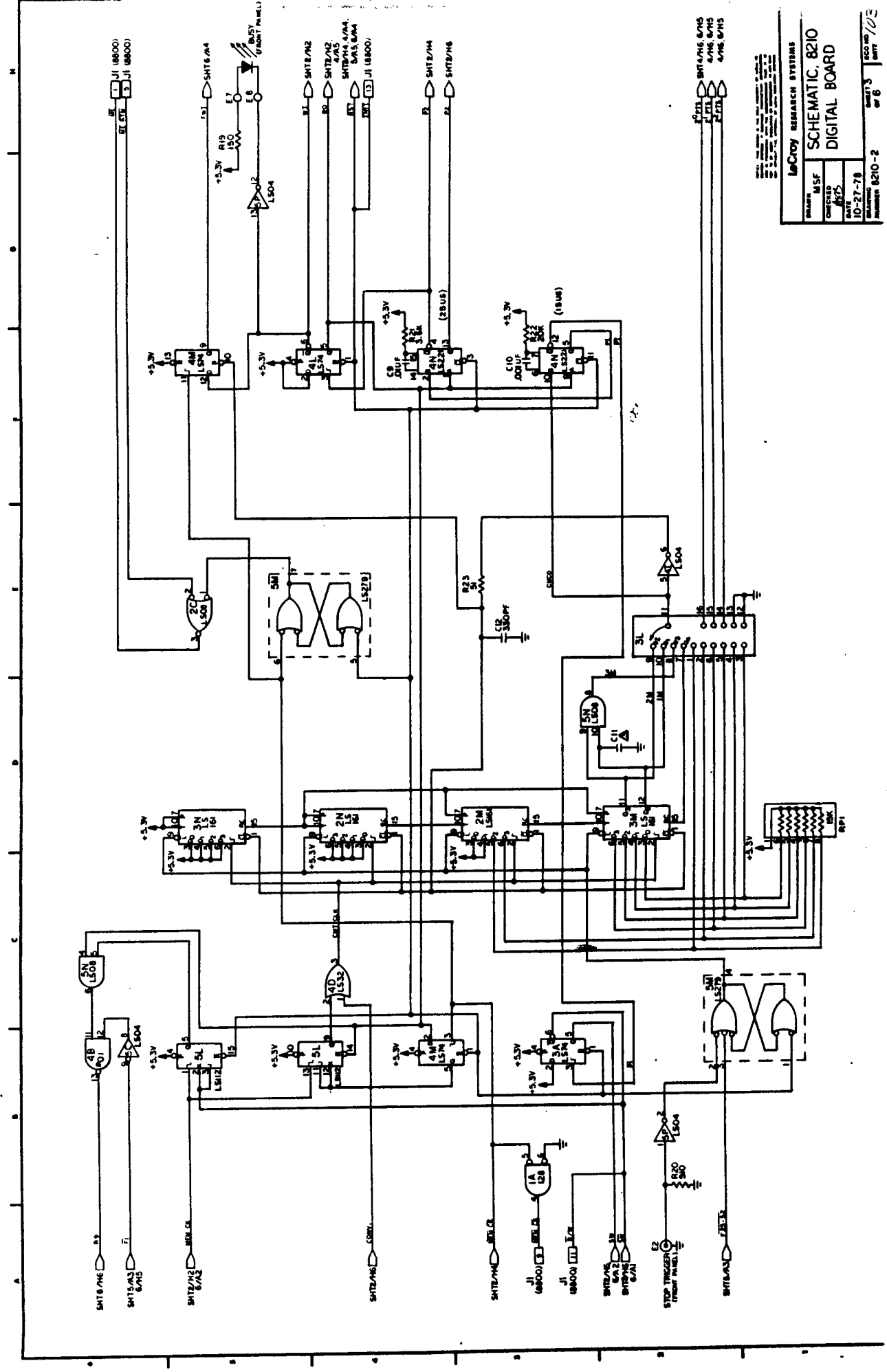
DIGITAL BOARD

REV. 10/30

10-27-78

10-27-78

10-27-78



LeCroy RESEARCH SYSTEMS

DESIGN	MSF
CHECKED	MSF
DATE	10-27-78
REVISION	NUMBER 8210-2

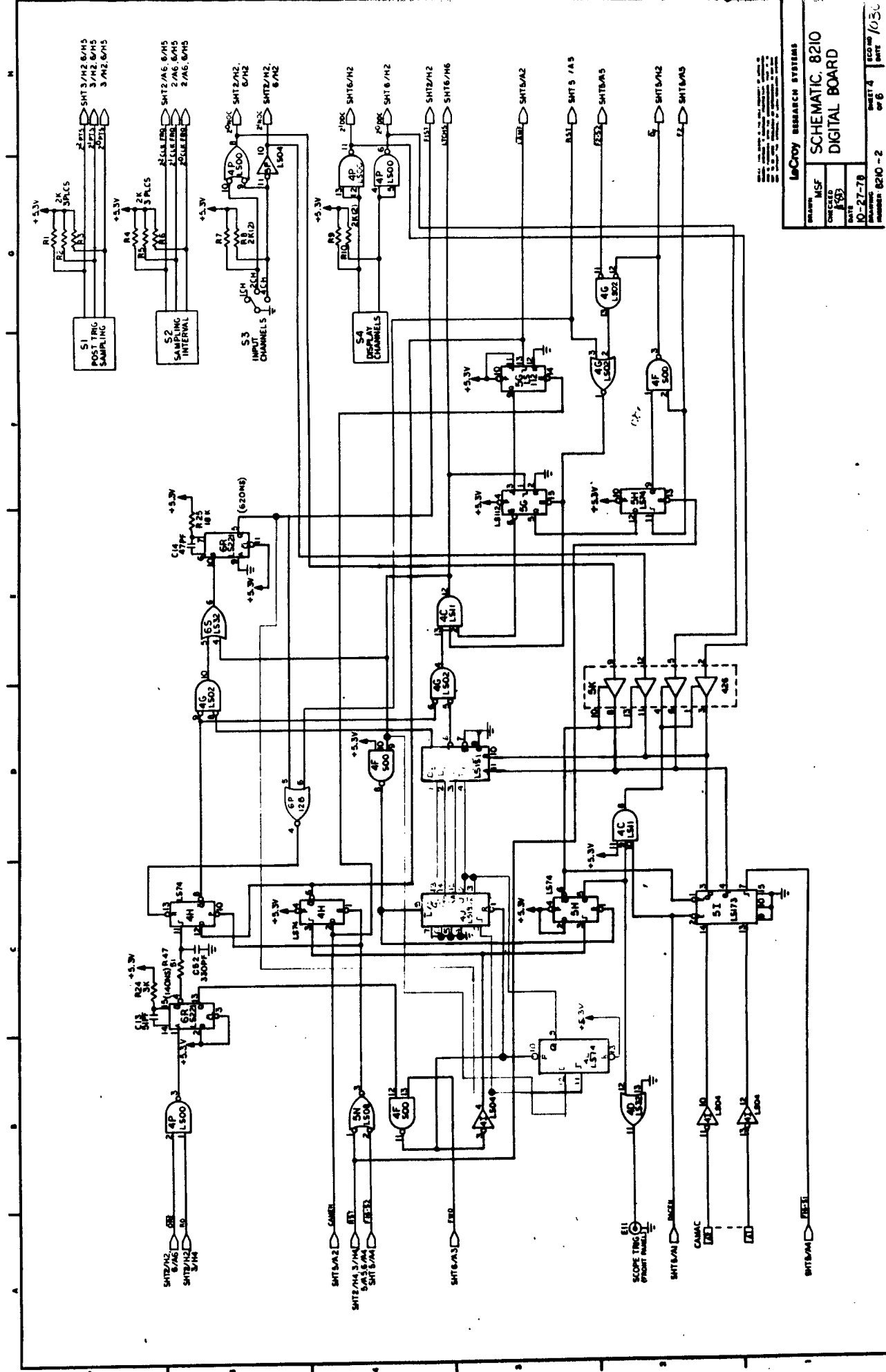
SCHEMATIC 8210

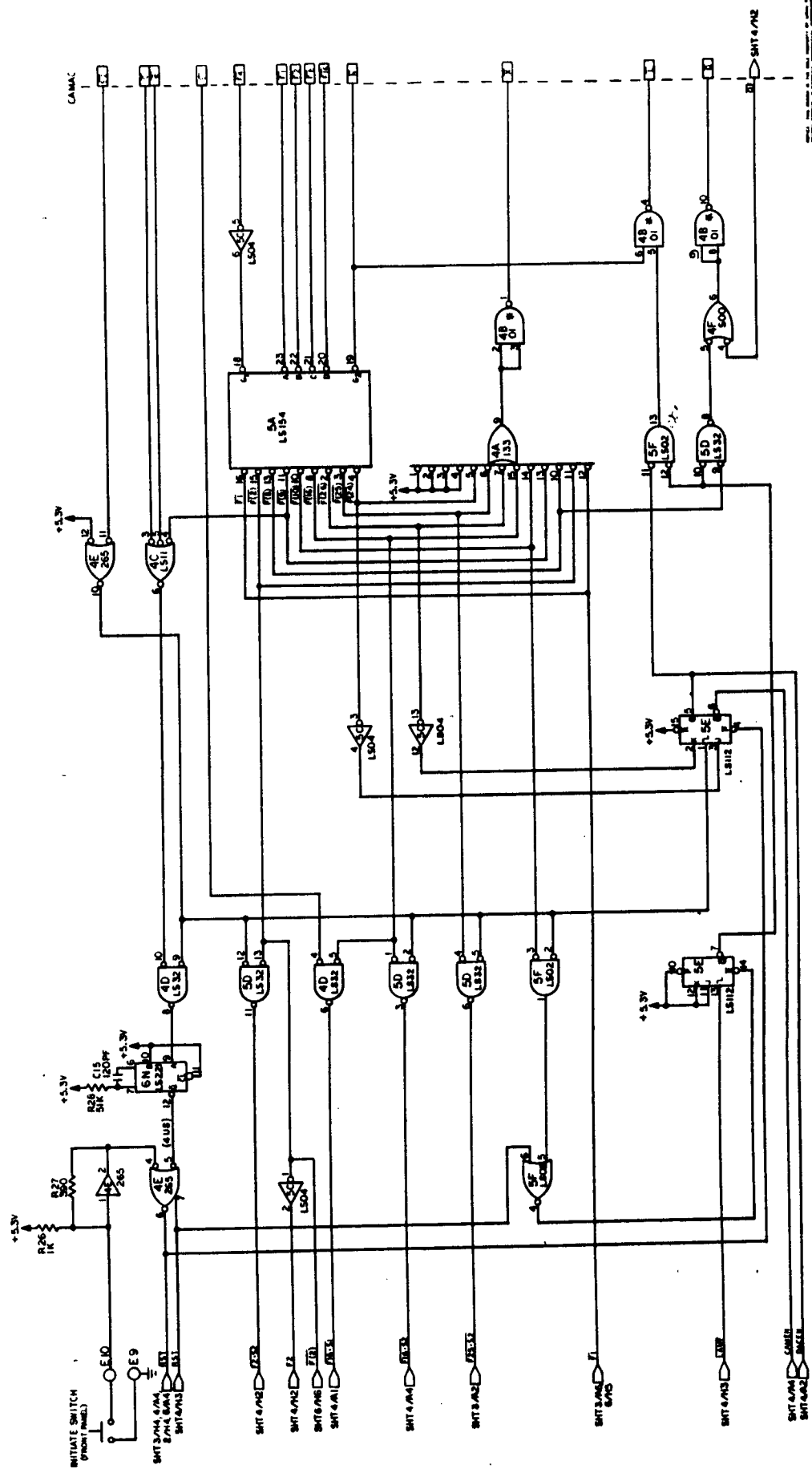
DIGITAL BOARD

SHEET 3

OF 6

10/2





15154

LaCroy RESEARCH SYSTEMS

SCHEMATIC, 8210 DIGITAL BOARD

DESIGNED BY
MSF
CHECKED BY
ATG
DATE
10-27-78
DRAWING NUMBER
8210-2

SHEET 5
OF 6
REVISED
DATE
10/30/80

REPLACEMENT PARTS

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 14NOV85 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