

CONVERSION TABLE

OCTAL	HEX	OCTAL	HEX	OCTAL	HEX	OCTAL	HEX	OCTAL	HEX
000	00	063	33	146	66	231	99	314	CC
001	01	064	34	147	67	232	9A	315	CD
002	02	065	35	150	68	233	9B	316	CE
003	03	066	36	151	69	234	9C	317	CF
004	04	067	37	152	6A	235	9D	320	D0
006	05	070	38	153	6B	236	9E	321	D1
006	06	071	39	154	6C	237	9F	322	D2
007	07	072	3A	155	6D	240	A0	323	D3
010	08	073	3B	156	6E	241	A1	324	D4
011	09	074	3C	157	6F	242	A2	325	D5
012	0A	075	3D	160	70	243	A3	326	D6
013	0B	076	3E	161	71	244	A4	327	D7
014	0C	077	3F	162	72	245	A5	330	D8
015	0D	100	40	163	73	246	A6	331	D9
016	0E	101	41	164	74	247	A7	332	DA
017	0F	102	42	165	75	250	A8	333	DB
020	10	103	43	166	76	251	A9	334	DC
021	11	104	44	167	77	252	AA	335	DD
022	12	105	45	170	78	253	AB	336	DE
023	13	106	46	171	79	254	AC	337	DF
024	14	107	47	172	7A	255	AD	340	E0
025	15	110	48	173	7B	256	AE	341	E1
026	16	111	49	174	7C	257	AF	342	E2
027	17	112	4A	175	7D	260	B0	343	E3
030	18	113	4B	176	7E	261	B1	344	E4
031	19	114	4C	177	7F	262	B2	345	E5
032	1A	115	4D	200	80	263	B3	346	E6
033	1B	116	4E	201	81	264	B4	347	E7
034	1C	117	4F	202	82	265	B5	350	E8
035	1D	120	50	203	83	266	B6	351	E9
036	1E	121	51	204	84	267	B7	352	EA
037	1F	122	52	205	85	270	B8	353	EB
040	20	123	53	206	86	271	B9	354	EC
041	21	124	54	207	87	272	BA	355	ED
042	22	125	55	210	88	273	BB	356	EE
043	23	126	56	211	89	274	BC	357	EF
044	24	127	57	212	8A	275	BD	360	F0
045	25	130	58	213	8B	276	BE	361	F1
046	26	131	59	214	8C	277	BF	362	F2
047	27	132	5A	215	8D	300	C0	363	F3
050	28	133	5B	216	8E	301	C1	364	F4
051	29	134	5C	217	8F	302	C2	365	F5
052	2A	135	5D	220	90	303	C3	366	F6
053	2B	136	5E	221	91	304	C4	367	F7
054	2C	137	5F	222	92	305	C5	370	F8
055	2D	140	60	223	93	306	C6	371	F9
056	2E	141	61	224	94	307	C7	372	FA
057	2F	142	62	225	95	310	C8	373	FB
060	30	143	63	226	96	311	C9	374	FC
061	31	144	64	227	97	312	CA	375	FD
062	32	145	65	230	98	313	CB	376	FE
								377	FF

E & L INSTRUMENTS' DOMESTIC REPRESENTATIVES
 To identify your representative, see if your ZIP CODE falls between any of those listed below.

<p>01001 - 06907 ELECTRONIC MARKETING COMPANY 1092 Johnson Road Woodbridge, CT 06525 (203) 397-1461</p>	<p>50001 - 52808 / 62001 - 62299 62400 - 62499 / 83001 - 89299 SIR JOHN, INC. P.O. Box 7143 Overland Park, KS 66204 (913) 649-8952</p>
<p>07001 - 07999 / 08800 - 11899 SHORTLESS - RAWSON & ASSOCIATES 155 U.S. Route 22 Springfield, NJ 07081 (201) 467-8585</p>	<p>59001 - 59399 / 69300 - 69387 80002 - 83499 / 84001 - 84780 BILL NEWMAN & COMPANY 711 Valjejo, Suite 207 Denver, CO 80204 (303) 534-1356</p>
<p>12000 - 14905 NACO ELECTRONICS CORPORATION P.O. Box 276 N. Syracuse, NY 13212 (315) 699-2651</p>	<p>89301 - 89835 / 93556 - 96970 I.F.M., INC. 80 W. El Camino Real Suite C Mountain View, CA 94040 (415) 961-2828</p>
<p>95001 - 96515 / 99001 - 99114 / 90001 - 93555 EDWARDS ASSOCIATES 808 Silver Spur Road California Federal Bldg. Suite 320 Palos Verdes Penn., CA 90274 (213) 377-0975</p>	<p>15001 - 16799 / 40003 - 47997 RIXAN ASSOCIATES 5062 Wadsworth Road Dayton, OH 45414 (513) 222-0011</p>
<p>08000 - 08799 / 16800 - 19980 SHORTLESS - RAWSON & ASSOCIATES P.O. Box 193 Souderton, PA 18964 (215) 723-8733</p>	<p>48001 - 49972 / 53001 - 58956 / 60001 - 61999 62300 - 62399 / 82500 - 82999 MARTEC ASSOCIATES 2351 East Oakton Street Arlington Heights, IL 60005 (312) 956-8060</p>
<p>30001 - 39776 NINE ASSOCIATES, INC. The 5750 Building, Suite 219 5750 Major Blvd. Orlando, FL 32805 (305) 351-1841</p>	<p>70001 - 79990 TESCO, INC. 12115 Self Plaza Suite 203 Dallas, TX 75218 (214) 328-5484</p>
<p>20001 - 29945 NINE ASSOCIATES, INC. Dandridge House 10680 Main Street Fairfax, VA 22030 (703) 273-1803</p>	<p>59400 - 59937 / 83500 - 83876 97001 - 99990 JON JOLLY, INC. 5416 California Ave. S.W. Seattle, WA 98136 (206) 938-4166</p>

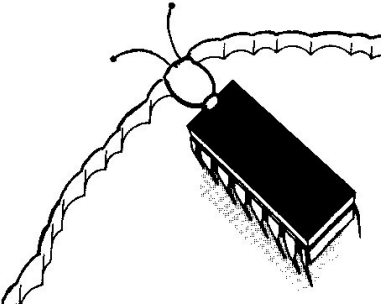
803 - C147A

8080A
INSTRUCTION
REFERENCE
CARD

COMPLIMENTS OF:



E & L INSTRUMENTS, INC.
 61 FIRST ST.
 DERBY, CT. 06418



DATA TRANSFER GROUP

HEX	OCT	MNEMONIC	HEX	OCT	MNEMONIC
40	100	MOV B, B	8B	153	MOV L, E
41	101	MOV B, C	8C	154	MOV L, H
42	102	MOV B, D	8D	155	MOV L, L
43	103	MOV B, E	8E	156	MOV L, M
44	104	MOV B, H	8F	157	MOV L, A
45	105	MOV B, L			
46	106	MOV B, M	70	160	MOV M, B
47	107	MOV B, A	71	161	MOV M, C
			72	162	MOV M, D
48	110	MOV C, B	73	163	MOV M, E
49	111	MOV C, C	74	164	MOV M, H
4A	112	MOV C, D	75	165	MOV M, L
4B	113	MOV C, E	76	166	HLT
4C	114	MOV C, H			
4D	115	MOV C, L	77	167	MOV M, A
4E	116	MOV C, M	78	170	MOV A, B
4F	117	MOV C, A	79	171	MOV A, C
			7A	172	MOV A, D
50	120	MOV D, B	7B	173	MOV A, E
51	121	MOV D, C	7C	174	MOV A, H
52	122	MOV D, D	7D	175	MOV A, L
53	123	MOV D, E	7E	176	MOV A, M
54	124	MOV D, H	7F	177	MOV A, A
55	125	MOV D, L			
56	126	MOV D, M	06	006	MVI B <B2>
57	127	MOV D, A	0E	016	MVI C <B2>
			16	026	MVI D <B2>
58	130	MOV E, B	1E	036	MVI E <B2>
59	131	MOV E, C	26	046	MVI H <B2>
5A	132	MOV E, D	2E	056	MVI L <B2>
5B	133	MOV E, E	36	066	MVI M <B2>
5C	134	MOV E, H	3E	076	MVI A <B2>
5D	135	MOV E, L			
5E	136	MOV E, M	01	001	LXI B <B2> <B3>
5F	137	MOV E, A	11	021	LXI D <B2> <B3>
			21	041	LXI H <B2> <B3>
			31	061	LXI SP <B2> <B3>
60	140	MOV H, B			
61	141	MOV H, C			
62	142	MOV H, D	02	002	STAX B
63	143	MOV H, E	0A	012	LDAX B
64	144	MOV H, H	12	022	STAX D
65	145	MOV H, L	1A	032	LDAX D
66	146	MOV H, M			
67	147	MOV H, A	22	042	SHLD <B2> <B3>
			2A	062	LHLD <B2> <B3>
68	150	MOV L, B	32	062	STA <B2> <B3>
69	151	MOV L, C	3A	072	LDA <B2> <B3>
6A	152	MOV L, D	EB	353	XCHG
			F9	371	SPHL

LOGICAL

HEX	OCT	MNEMONIC	HEX	OCT	MNEMONIC
A0	240	ANA B	C2	302	JNZ <B2> <B3>
A1	241	ANA C	CA	312	JZ <B2> <B3>
A2	242	ANA D	D2	322	JNC <B2> <B3>
A3	243	ANA E	DA	332	JC <B2> <B3>
A4	244	ANA H	E2	342	JPO <B2> <B3>
A5	245	ANA L	EA	352	JPE <B2> <B3>
A6	246	ANA M	F2	362	JP <B2> <B3>
A7	247	ANA A	FA	372	JM <B2> <B3>
A8	250	XRA B			
A9	251	XRA C	C4	304	CNZ <B2> <B3>
AA	252	XRA D	CC	314	CZ <B2> <B3>
AB	253	XRA E	D4	324	CNC <B2> <B3>
AC	254	XRA H	DC	334	CC <B2> <B3>
AD	255	XRA L	E4	344	CPO <B2> <B3>
AE	256	XRA M	EC	354	CPE <B2> <B3>
AF	257	XRA A	F4	364	CP <B2> <B3>
B0	260	ORA B	FC	374	CM <B2> <B3>
B1	261	ORA C			
B2	262	ORA D	C0	300	RNZ
B3	263	ORA E	C8	310	RZ
B4	264	ORA H	D0	320	RNC
B5	265	ORA L	D8	330	RC
B6	266	ORA M	E0	340	RPO
B7	267	ORA A	F8	350	RPE
B8	270	CMP B	F0	360	RP
B9	271	CMP C	F8	370	RM
BA	272	CMP D			
BB	273	CMP E	C3	303	JMP <B2> <B3>
BC	274	CMP H	C9	311	RET
BD	275	CMP L	CD	315	CALL <B2> <B3>
BE	276	CMP M			
BF	277	CMP A			
			C7	307	RST 0
07	007	RLC	CF	317	RST 1
0F	017	RRC	D7	327	RST 2
17	027	RAL	DF	337	RST 3
1F	037	RAR	E7	347	RST 4
			EF	357	RST 5
2F	057	CMA	F7	367	RST 6
37	067	STC	FF	377	RST 7
3F	077	CMC			
E6	346	ANI <B2>	E9	351	PCHL
EE	356	XRI <B2>			
F6	366	ORI <B2>			
FE	376	CPI <B2>			

ARITHMETIC GROUP

HEX	OCT	MNEMONIC	HEX	OCT	MNEMONIC
80	200	ADD B	04	004	INR B
81	201	ADD C	0C	014	INR C
82	202	ADD D	14	024	INR D
83	203	ADD E	1C	034	INR E
84	204	ADD H	24	044	INR H
85	205	ADD L	2C	054	INR L
86	206	ADD M	34	064	INR M
87	207	ADD A	3C	074	INR A
88	210	ADC B	05	005	DCR B
89	211	ADC C	0D	015	DCR C
8A	212	ADC D	15	025	DCR D
8B	213	ADC E	1D	035	DCR E
8C	214	ADC H	25	045	DCR H
8D	215	ADC L	2D	055	DCR L
8E	216	ADC M	35	065	DCR M
8F	217	ADC A	3D	075	DCR A
90	220	SUB B	03	003	INX B
91	221	SUB C	13	023	INX D
92	222	SUB D	23	043	INX H
93	223	SUB E	33	063	INX SP
94	224	SUB H			
95	225	SUB L	08	013	DCX B
96	226	SUB M	18	033	DCX D
97	227	SUB A	28	053	DCX H
			38	073	DCX SP
98	230	SBB B			
99	231	SBB C	09	011	DAD B
9A	232	SBB D	19	031	DAD D
9B	233	SBB E	29	051	DAD H
9C	234	SBB H	39	071	DAD SP
9D	235	SBB L	27	047	DAA
9E	236	SBB M			
9F	237	SBB A	C6	306	ADI <B2>
			CE	316	ACI <B2>
			D6	326	SUI <B2>
			DE	336	SBI <B2>

STACK, I/O, AND MACHINE CONTROL

HEX	OCT	MNEMONIC	HEX	OCT	MNEMONIC
DB	333	IN <B2>	C1	301	POP B
D3	323	OUT <B2>	D1	321	POP D
FB	373	EI	E1	341	POP H
F3	363	DI	F1	361	POP PSW
76	166	HALT	C5	305	PUSH B
00	000	NOP	D5	325	PUSH D
E3	343	XTHL	E5	345	PUSH H
			F5	365	PUSH PSW