

Hex	Mnemonic	Hex	Mnemonic	Hex	Mnemonic	Hex	Mnemonic
CE	ACI 8-Bit	3F	CMC	2B	DCX H	01	LXI B, 16-Bit
8F	ADC A	BF	CMP A	3B	DCX SP	11	LXI D, 16-Bit
88	ADC B	B8	CMP B	F3	DI	21	LXI H, 16-Bit
89	ADC C	B9	CMP C	FB	EI	31	LXI SP, 16-Bit
8A	ADC D	BA	CMP D	76	HLT	7F	MOV A,A
8B	ADC E	BB	CMP E	DB	IN 8-Bit	78	MOV A,B
8C	ADC H	BC	CMP H	3C	INR A	79	MOV A,C
8D	ADC L	BD	CMP L	04	INR B	7A	MOV A,D
8E	ADC M	BE	CMP M	0C	INR C	7B	MOV A,E
87	ADD A	D4	CNC 16-Bit	14	INR D	7C	MOV A,H
80	ADD B	C4	CNZ 16-Bit	1C	INR E	7D	MOV A,L
81	ADD C	F4	CP 16-Bit	24	INR H	7E	MOV A,M
82	ADD D	EC	CPE 16-Bit	2C	INR L	47	MOV B,A
83	ADD E	FE	CPI 8-Bit	34	INR M	40	MOV B,B
84	ADD H	E4	CPO 16-Bit	03	INX B	41	MOV B,C
85	ADD L	CC	CZ 16-Bit	13	INX D	42	MOV B,D
86	ADD M	27	DAA	23	INX H	43	MOV B,E
C6	ADI 8-Bit	09	DAD B	33	INX SP	44	MOV B,H
A7	ANA A	19	DAD D	DA	JC 16-Bit	45	MOV B,L
A0	ANA B	29	DAD H	FA	JM 16-Bit	46	MOV B,M
A1	ANA C	39	DAD SP	C3	JMP 16-Bit	4F	MOV C,A
A2	ANA D	3D	DCR A	D2	JNC 16-Bit	48	MOV C,B
A3	ANA E	05	DCR B	C2	JNZ 16-Bit	49	MOV C,C
A4	ANA H	0D	DCR C	F2	JP 16-Bit	4A	MOV C,D
A5	ANA L	15	DCR D	EA	JPE 16-Bit	4B	MOV C,E
A6	ANA M	1D	DCR E	E2	JPO 16-Bit	4C	MOV C,H
E6	ANI 8-Bit	25	DCR H	CA	JZ 16-Bit	4D	MOV C,L
CD	CALL 16-Bit	2D	DCR L	3A	LDA 16-Bit	4E	MOV C,M
DC	CC 16-Bit	35	DCR M	0A	LDAX B	57	MOV D,A
FC	CM 16-Bit	0B	DCX B	1A	LDAX D	50	MOV D,B
2F	CMA	1B	DCX D	2A	LHLD 16-Bit	51	MOV D,C

NOTE: 1-Byte Instructions: Operand R, M or implicit

2-Byte Instructions: Operand 8-Bit

3-Byte Instructions: Operand 16-Bit

## 8085 INSTRUCTION SUMMARY: ALPHABETICAL ORDER—(continued)

Hex	Mnemonic	Hex	Mnemonic	Hex	Mnemonic	Hex	Mnemonic
52	MOV D,D	71	MOV M,C	E5	PUSH H	9E	SBB M
53	MOV D,E	72	MOV M,D	F5	PUSH PSW	DE	SBI 8-Bit
54	MOV D,H	73	MOV M,E	17	RAL	22	SHLD, 16-Bit
55	MOV D,L	74	MOV M,H	1F	RAR	30	SIM
56	MOV D,M	75	MOV M,L	D8	RC	F9	SPHL
5F	MOV E,A	3E	MVI A, 8-Bit	C9	RET	32	STA 16-Bit
58	MOV E,B	06	MVI B, 8-Bit	20	RIM	02	STAX B
59	MOV E,C	0E	MVI C, 8-Bit	07	RLC	12	STAX D
5A	MOV E,D	16	MVI D, 8-Bit	F8	RM	37	STC
5B	MOV E,E	1E	MVI E, 8-Bit	D0	RNC	97	SUB A
5C	MOV E,H	26	MVI H, 8-Bit	C0	RNZ	90	SUB B
5D	MOV E,L	2E	MVI L, 8-Bit	F0	RP	91	SUB C
5E	MOV E,M	36	MVI M, 8-Bit	E8	RPE	92	SUB D
67	MOV H,A	00	NOP	E0	RPO	93	SUB E
60	MOV H,B	B7	ORA A	0F	RRC	94	SUB H
61	MOV H,C	B0	ORA B	C7	RST 0	95	SUB L
62	MOV H,D	B1	ORA C	CF	RST 1	96	SUB M
63	MOV H,E	B2	ORA D	D7	RST 2	D6	SUI 8-Bit
64	MOV H,H	B3	ORA E	DF	RST 3	EB	XCHG
65	MOV H,L	B4	ORA H	E7	RST 4	AF	XRA A
66	MOV H,M	B5	ORA L	EF	RST 5	A8	XRA B
6F	MOV L,A	B6	ORA M	F7	RST 6	A9	XRA C
68	MOV L,B	F6	ORI 8-Bit	FF	RST 7	AA	XRA D
69	MOV L,C	D3	OUT 8-Bit	C8	RZ	AB	XRA E
6A	MOV L,D	E9	PCHL	9F	SBB A	AC	XRA H
6B	MOV L,E	C1	POP B	98	SBB B	AD	XRA L
6C	MOV L,H	D1	POP D	99	SBB C	AE	XRA M
6D	MOV L,L	E1	POP H	9A	SBB D	EE	XRI 8-Bit
6E	MOV L,M	F1	POP PSW	9B	SBB E	E3	XTHL
77	MOV M,A	C5	PUSH B	9C	SBB H		
70	MOV M,B	D5	PUSH D	9D	SBB L		