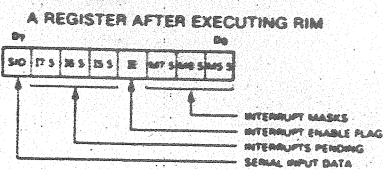


RESTART TABLE

Name	Code	Restart Address
RST 0	C7	000016
RST 1	CF	000816
RST 2	D7	001016
RST 3	DF	001816
RST 4	E7	002016
TRAP	Hardware Function	002416
RST 5	EF	002816
RST 5.5	Hardware Function	002C16
RST 6	F7	003016
RST 6.5	Hardware Function	003416
RST 7	FF	003816
RST 7.5	Hardware Function	003C16

*NOTE: The hardware functions refer to the on-chip interrupt feature of the 8085 only.

USE OF THE A REGISTER BY RIM AND SIM INSTRUCTIONS (8085 ONLY)



00 NOP	28 DCX H	56 MOV D.M
01 LXI B, dble	2C INR L	57 MOV D.A
02 STAX B	2D DCR L	58 MOV E.B
03 INX B	2E MVI L, byte	59 MOV E.C
04 INR B	2F CMA	5A MOV E.D
05 DCR B	30 SIM	5B MOV E.E
06 MVI B, byte	31 LXI SP, dble	5C MOV E.H
07 RLC	32 STA adr	5D MOV E.L
08 ---	33 INX SP	5E MOV E.M
09 DAD B	34 INR M	5F MOV E.A
0A LDAX B	35 DCR M	60 MOV H.B
0B DCR B	36 MVI M, byte	61 MOV H.C
0C INR C	37 STC	62 MOV H.D
0D DCR C	38 ---	63 MOV H.E
0E MVI C, byte	39 DAD SP	64 MOV H.H
0F RRC	3A LDA adr	65 MOV H.L
10 ---	3B DCX SP	66 MOV H.M
11 LXI D, dble	3C INR A	67 MOV H.A
12 STAX D	3D DCR A	68 MOV L.B
13 INX D	3E MVI A, byte	69 MOV L.C
14 INR D	3F CMC	6A MOV L.D
15 DCR D	40 MOV B.B	6B MOV L.E
16 MVI D, byte	41 MOV B.C	6C MOV L.H
17 RAL	42 MOV B.D	6D MOV L.L
18 ---	43 MOV B.E	6E MOV L.M
19 DAD D	44 MOV B.H	6F MOV L.A
1A LDAX D	45 MOV B.L	70 MOV M.B
1B DCX D	46 MOV B.M	71 MOV M.C
1C INR E	47 MOV B.A	72 MOV M.D
1D DCR E	48 MOV B.B	73 MOV M.E
1E MVI E, byte	49 MOV C.C	74 MOV M.H
1F RAR	4A MOV C.D	75 MOV M.L
20 RIM	4B MOV C.E	76 HLT
21 LXI H, dble	4C MOV C.H	77 MOV M.A
22 SHLD adr	4D MOV C.L	78 MOV M.B
23 INX H	4E MOV C.M	79 MOV M.C
24 INR H	4F MOV C.A	7A MOV M.D
25 DCR H	50 MOV D.B	7B MOV M.E
26 MVI H, byte	51 MOV D.C	7C MOV M.H
27 DAA	52 MOV D.D	7D MOV M.L
28 ---	53 MOV D.E	7E MOV M.A
29 DAD H	54 MOV D.H	7F MOV M.A
2A LHLD adr	55 MOV D.L	80 ADD B

*8085 Only

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HEX-ASCII TABLE

00 NUL	21 !	42 B	63 c
01 SOH	22 "	43 C	64 d
02 STX	23 #	44 D	65 e
03 ETX	24 \$	45 E	66 f
04 EOT	25 %	46 F	67 g
05 ENQ	26 &	47 G	68 h
06 ACK	27 '	48 H	69 i
07 BEL	28 (49 I	6A j
08 BS	29)	4A J	6B k
09 HT	2A *	4B K	6C l
0A LF	2B +	4C L	6D m
0B VT	2C ,	4D M	6E n
0C FF	2D -	4E N	6F o
0D CR	2E .	4F O	70 p
0E SO	2F /	50 P	71 q
0F SI	30 0	51 Q	72 r
10 DLE	31 1	52 R	73 s
11 DC1 (X-ON)	32 2	53 S	74 t
12 DC2 (TAPE)	33 3	54 T	75 u
13 DC3 (X-OFF)	34 4	55 U	76 v
14 DC4 (TAPE)	35 5	56 V	77 w
15 NAK	36 6	57 W	78 x
16 SYN	37 7	58 X	79 y
17 ETB	38 8	59 Y	7A z
18 CAN	39 9	5A Z	7B {
19 EM	3A :	5B [7C }
1A SUB	3B ;	5C \	7D _
1B ESC	3C <	5D	(ALT MODE)
1C FS	3D =	5E ~	(?)
1D GS	3E >	5F ^	(-)
1E RS	3F ?	60 `	DEL (RUB OUT)
1F US	40 @	61 a	
20 SP	41 A	62 b	

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Printed in U.S.A./A348/0481/100K BL

intel
8085/8080
Assembly Language
Reference Card

March 1979



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9800438D

DATA TRANSFER GROUP

MOV : IMPLC. reg ← reg			
	Move	Move (cont)	Move IMMEDIATE ADDR.
MOV	A.A 7F	E.A 5F	A. byte 3E
	A.B 78	E.B 58	B. byte 06
	A.C 79	E.C 59	C. byte 0E
	A.D 7A	E.D 5A	D. byte 16
	A.E 7B	E.E 5B	E. byte 1E
	A.H 7C	E.H 5C	H. byte 26
	A.L 7D	E.L 5D	L. byte 2E
	A.M 7E	E.M 5E	M. byte 36
MOV	B.A 47	H.A 67	Load IMM. ADDR. Immediate
	B.B 40	H.B 60	
	B.C 41	H.C 61	LXI [B. dble 01 D. dble 11 H. dble 21 SP. dble 31
	B.D 42	H.D 62	
	B.E 43	H.E 63	
	B.H 44	H.H 64	
	B.L 45	H.L 65	
	B.M 46	H.M 66	
MOV	C.A 4F	L.A 6F	Load/Store
	C.B 48	L.B 68	
	C.C 49	L.C 69	LDAX B 0A LDAX D 1A LHLD adr 2A LDA adr 3A STAX B 02 STAX D 12 SHLD adr 22 STA adr 32
	C.D 4A	L.D 6A	
	C.E 4B	L.E 6B	
	C.H 4C	L.H 6C	
	C.L 4D	L.L 6D	
	C.M 4E	L.M 6E	
MOV	D.A 57	M.A 77	reg.indr
	D.B 50	M.B 70	
	D.C 51	M.C 71	
	D.D 52	M.D 72	
	D.E 53	M.E 73	
	D.H 54	M.H 74	
	D.L 55	M.L 75	
	D.M 56		
	XCHG	EB	