TABLE 11-3. SAP-2 INSTRUCTION SET

Instruction	Op Code	*T* States	Flags	Addressing	Bytes
ADD B	80	4	S, Z	Register	1
ADD C	81	4	S, Z	Register	1
ANA B	A0	4	S, Z	Register	1
ANA C	A1	4	S, Z	Register	1
ANI byte	E6	7	S, Z	Immediate	2
CALL address	CD	18	None	Immediate	3
CMA	2F	4	None	Implied	1
DCR A	3D	4	S, Z	Register	1
DCR B	05	4	S, Z	Register	1
DCR C	0D	4	S, Z	Register	1
HLT	76	5	None	—	1
IN byte	DB	10	None	Direct	2
INR A	3C	4	S, Z	Register	1
INR B	04	4	S, Z	Register	1
INR C	0C	4	S, Z	Register	1
JM address	FA	10/7	None	Immediate	3
JMP address	C3	10	None	Immediate	3
JNZ address	C2	10/7	None	Immediate	3
JZ address	CA	10/7	None	Immediate	3
LDA address	3A	13	None	Direct	3
MOV A,B	78	4	None	Register	1
MOV A,C	79	4	None	Register	1
MOV B,A	47	4	None	Register	1
MOV B,C	41	4	None	Register	1
MOV C,A	4F	4	None	Register	1
MOV C,B	48	4	None	Register	1
MVI A,byte	3E	7	None	Immediate	2
MVI B,byte	06	7	None	Immediate	2
MVI C,byte	0E	7	None	Immediate	2
NOP	00	4	None	—	1
ORA B	B0	4	S, Z	Register	1
ORA C	B1	4	S, Z	Register	1
ORI byte	F6	7	S, Z	Immediate	2
OUT byte	D3	10	None	Direct	2
RAL	17	4	None	Implied	1
RAR	1F	4	None	Implied	1
RET	C9	10	None	Implied	1
STA address	32	13	None	Direct	3
SUB B	90	4	S, Z	Register	1
SUB C	91	4	S, Z	Register	1
XRA B	A8	4	S, Z	Register	1
XRA C	A9	4	S, Z	Register	1
XRI byte	EE	7	S, Z	Immediate	2