

INSTRUCTIONS		Immediate			Absolute			Zero Page			Accum.			Implied			(Ind.) X			(Ind.) Y			Z, Page, X			Abs. X			Abs. Y			Relative			Indirect			Z, Page, Y			CONDITION CODES								
Mnemonic	Operation	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	OP	N	#	N	Z	C	I	D	V						
ADC	A + M + C → A (4) (1)	69	2	2	6D	4	3	65	3	2							61	6	2	71	5	2	75	4	2	7D	4	3	79	4	3																		
AND	A ∧ M → A (1)	29	2	2	2D	4	3	25	3	2							21	6	2	31	5	2	35	4	2	3D	4	3	39	4	3																		
ASL	C ← [7] 0 ← 0				0E	6	3	06	5	2	0A	2	1										16	6	2	1E	7	3																					
BCC	BRANCH ON C = 0 (2)																																																
BCS	BRANCH ON C = 1 (2)																																																
BEO	BRANCH ON Z = 1 (2)																																																
BIT	A ∧ M				2C	4	3	24	3	2																																							
BMI	BRANCH ON N = 1 (2)																																																
BNE	BRANCH ON Z = 0 (2)																																																
BPL	BRANCH ON N = 0 (2)																																																
BRK	(See Figure A-1)													00	7	1																																	
BVC	BRANCH ON V = 0 (2)																																																
BVS	BRANCH ON V = 1 (2)																																																
CLC	0 → C													18	2	1																																	
CLD	0 → D													D8	2	1																																	
CLI	0 → I													58	2	1																																	
CLV	0 → V													B8	2	1																																	
CMP	A - M (1)	C9	2	2	CD	4	3	C5	3	2							C1	6	2	D1	5	2	D5	4	2	DD	4	3	D9	4	3																		
CPX	X - M	E0	2	2	EC	4	3	E4	3	2																																							
CPY	Y - M	C0	2	2	CC	4	3	C4	3	2																																							
DEC	M - 1 → M				CE	6	3	C6	5	2																																							
DEX	X - 1 → X													CA	2	1																																	
DEY	Y - 1 → Y													B8	2	1																																	
EOR	AVM → A (1)	49	2	2	4D	4	3	45	3	2							41	6	2	51	5	2	55	4	2	5D	4	3	59	4	3																		
INC	M + 1 → M				EE	6	3	E6	5	2																																							
INX	X + 1 → X													E8	2	1																																	
INY	Y + 1 → Y													C8	2	1																																	
JMP	JUMP TO NEW LOC.				4C	3	3																																										
JSR	(See Figure A-2) JUMP SUB				20	6	3																																										
LDA	M → A (1)	A9	2	2	AD	4	3	A5	3	2							A1	6	2	B1	5	2	B5	4	2	BD	4	3	B9	4	3																		

Figure A.3