

LSD MSD	0	1	2	3	4	5	6	7
0	BRK	ORA-I, X				ORA- $\phi$ -P	ASL- $\phi$ -P	
1	BPL	ORA-I, Y				ORA- $\phi$ -P, X	ASL- $\phi$ -P, X	
2	JSR	AND-I, X			BIT- $\phi$ -P	AND- $\phi$ -P	ROL- $\phi$ -P	
3	BMI	AND-I, Y				AND- $\phi$ -P, X	ROL- $\phi$ -P, X	
4	RTI	EOR-I, X				EOR- $\phi$ -P	LSR- $\phi$ -P	
5	BVC	EOR-I, Y				EOR- $\phi$ -P, X	LSR- $\phi$ -P, X	
6	RTS	ADC-I, X				ADC- $\phi$ -P	ROR- $\phi$ -P	
7	BVS	ADC-I, Y				ADC- $\phi$ -P, X		
8		STA-I, X			STY- $\phi$ -P	STA- $\phi$ -P	STX- $\phi$ -P	
9	BCC	STA-I, Y			STY- $\phi$ -P, X	STA- $\phi$ -P, X	STX- $\phi$ -P, Y	
A	LDY-IMM	LDA-I, X	LDX-IMM		LDY- $\phi$ -P	LDA- $\phi$ -P	LDX- $\phi$ -P	
B	BCS	LDA-I, Y			LDY- $\phi$ -P, X	LDA- $\phi$ -P, X	LDX- $\phi$ -P, Y	
C	CPY-IMM	CMP-I, X			CPY- $\phi$ -P	CMP- $\phi$ -P	DEC- $\phi$ -P	
D	BNE	CMP-I, Y				CMP- $\phi$ -P, X	DEC- $\phi$ -P, X	
E	CPX-IMM	SBC-I, X			CPX- $\phi$ -P	SBC- $\phi$ -P	INC- $\phi$ -P	
F	BEQ	SBC-I, Y				SBC- $\phi$ -P, X	INC- $\phi$ -P, X	

8	9	A	B	C	D	E	F	LSD MSD
PHP	ORA-IMM	ASL-A			ORA	ASL		0
CLC	ORA, Y				ORA, X	ASL, X		1
PLP	AND-IMM	ROL-A			AND	ROL		2
SEC	AND, Y			BIT	AND, X	ROL, X		3
PHA	EOR-IMM	LSR-A			EOR	LSR		4
CLI	EOR, Y			JMP	EOR, X	LSR, X		5
PLA	ADC-IMM	ROR-A			ADC	ROR		6
SEI	ADC, Y			JMP-I	ADC, X			7
DEY		TXA			STA	STX		8
TYA	STA, Y	TXS			STA, X			9
TAY	LDA-IMM	TAX			LDA	LDX		A
CLV	LDA, Y	TSX		LDY	LDA, X	LDX, Y		B
INY	CMP-IMM	DEX		LDY, X	CMP	DEC		C
CLD	CMP, Y			CPY	CMP, X	DEC, X		D
INX	SBC-IMM	NOP			SBC	INC		E
SED	SBC, Y			CPX	SBC, X	INC, X		F

I = indirect

$\phi$ -P = zero page