

SC61860 INSTRUCTION SET

Low	High															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	LII \$nn [Cycles]4	LIDP \$nnnn [Cycles]8	LDP [Cycles]2	STP [Cycles]2	INCI [Cycles]4	INCP [Cycles]2	ANIM \$nn [Cycles]4	ADIM \$nn [Cycles]4	LP \$00 [Cycles]2	LP \$10 [Cycles]2	LP \$20 [Cycles]2	LP \$30 [Cycles]2	INCJ [Cycles]4	SC [Cycles]2	CAL \$00nn [Cycles]7	CAL \$10nn [Cycles]7
1	LIJ \$nn [Cycles]4	LIDL \$nn [Cycles]5	LDQ [Cycles]2	STQ [Cycles]2	DECI [Cycles]4	DECP [Cycles]2	ORIM \$nn [Cycles]4	SBIM \$nn [Cycles]4	LP \$01 [Cycles]2	LP \$11 [Cycles]2	LP \$21 [Cycles]2	LP \$31 [Cycles]2	DECJ [Cycles]4	RC [Cycles]2	CAL \$01nn [Cycles]7	CAL \$11nn [Cycles]7
2	LIA \$nn [Cycles]4	LIP \$nn [Cycles]4	LDR [Cycles]2	STR [Cycles]2	INCA [Cycles]4	STD [Cycles]2	TSIM \$nn [Cycles]4	LIH \$nn [Cycles]2	LP \$02 [Cycles]2	LP \$12 [Cycles]2	LP \$22 [Cycles]2	LP \$32 [Cycles]2	INCB [Cycles]4	SR [Cycles]2	CAL \$02nn [Cycles]7	CAL \$12nn [Cycles]7
3	LIB \$nn [Cycles]4	LIQ \$nn [Cycles]4	CLRA [Cycles]2		DECA [Cycles]4	MVDM [Cycles]3	CPIM \$nn [Cycles]4	(Compatible with 72H)	LP \$03 [Cycles]2	LP \$13 [Cycles]2	LP \$23 [Cycles]2	LP \$33 [Cycles]2	DECB [Cycles]4	(Compatible with 4DH) NOPW	CAL \$03nn [Cycles]7	CAL \$13nn [Cycles]7
4	IX [Cycles]6	ADB [Cycles]5	IXL [Cycles]7	PUSH [Cycles]4	ADM [Cycles]3	READM (MVMP) [Cycles]3	ANIA \$nn [Cycles]4	ADIA \$nn [Cycles]4	LP \$04 [Cycles]2	LP \$14 [Cycles]2	LP \$24 [Cycles]2	LP \$34 [Cycles]2	ADCM [Cycles]3	ANID [Cycles]6	CAL \$04nn [Cycles]7	CAL \$14nn [Cycles]7
5	DX [Cycles]6	SBB [Cycles]5	DXL [Cycles]7	MVWP (DATA) [Cycles]11+4*1	SBM [Cycles]3	MVMD [Cycles]3	ORIA \$nn [Cycles]4	SBIA \$nn [Cycles]4	LP \$05 [Cycles]2	LP \$15 [Cycles]2	LP \$25 [Cycles]2	LP \$35 [Cycles]2	SBCM [Cycles]3	ORID [Cycles]6	CAL \$05nn [Cycles]7	CAL \$15nn [Cycles]7
6	IY [Cycles]6	unknown	IYS [Cycles]7	unknown	ANMA [Cycles]3	READ (LDPC) [Cycles]3	TSIA \$nn [Cycles]4	(Compatible with 72H)	LP \$06 [Cycles]2	LP \$16 [Cycles]2	LP \$26 [Cycles]2	LP \$36 [Cycles]2	TSMA [Cycles]3	TSID [Cycles]6	CAL \$06nn [Cycles]7	CAL \$16nn [Cycles]7
7	DY [Cycles]6	unknown	DYS [Cycles]7	RTN [Cycles]4	ORMA [Cycles]3	LDD [Cycles]3	CPIA \$nn [Cycles]4	(Compatible with 72H)	LP \$07 [Cycles]2	LP \$17 [Cycles]2	LP \$27 [Cycles]2	LP \$37 [Cycles]2	CPMA [Cycles]3	CPID \$nn [Cycles]6	CAL \$07nn [Cycles]7	CAL \$17nn [Cycles]7
8	MVW [Cycles]5+2*1	MVWD [Cycles]5+4*1	JRNZP \$nn [Cycles]7/4	JRZP \$nn [Cycles]7/4	INCK [Cycles]4	SWP [Cycles]2		CALL \$nnnn [Cycles]8	LP \$08 [Cycles]2	LP \$18 [Cycles]2	LP \$28 [Cycles]2	LP \$38 [Cycles]2	INCL [Cycles]4	LEAVE [Cycles]2	CAL \$08nn [Cycles]7	CAL \$18nn [Cycles]7
9	EXW [Cycles]6+3*1	EXWD [Cycles]7+6*1	JRNZM \$nn [Cycles]7/4	JRZM \$nn [Cycles]7/4	DECK [Cycles]4	LDM [Cycles]2	CASE2 (CASE) [Cycles]2	JP \$nnnn [Cycles]6	LP \$09 [Cycles]2	LP \$19 [Cycles]2	LP \$29 [Cycles]2	LP \$39 [Cycles]2	DECL [Cycles]4	(Compatible with 4DH) NOPW	CAL \$09nn [Cycles]7	CAL \$19nn [Cycles]7
A	MVB [Cycles]5+2*J	MVBD [Cycles]5+4*1	JRNCP \$nn [Cycles]7/4	JRCP \$nn [Cycles]7/4	INCM [Cycles]4	SL [Cycles]2		CASE1 (SET) \$nn,\$nnnn [Cycles]9	LP \$0A [Cycles]2	LP \$1A [Cycles]2	LP \$2A [Cycles]2	LP \$3A [Cycles]2	INCN [Cycles]4	EXAB [Cycles]3	CAL \$0Ann [Cycles]7	CAL \$1Ann [Cycles]7
B	EXB [Cycles]6+3*J	EXBD [Cycles]7+6*J	JRNOM \$nn [Cycles]7/4	JRCM \$nn [Cycles]7/4	DECM [Cycles]4	POP [Cycles]2	TEST \$nn [Cycles]4	HALT [Cycles] –	LP \$0B [Cycles]2	LP \$1B [Cycles]2	LP \$2B [Cycles]2	LP \$3B [Cycles]2	DECN [Cycles]4	EXAM [Cycles]3	CAL \$0Bnn [Cycles]7	CAL \$1Bnn [Cycles]7
C	ADN [Cycles]7+3*1	SRW [Cycles]5+1	JRP \$nn [Cycles]7	unknown	INA [Cycles]2	unknown	unknown	JPNZ \$nnnn [Cycles]6	LP \$0C [Cycles]2	LP \$1C [Cycles]2	LP \$2C [Cycles]2	LP \$3C [Cycles]2	INB [Cycles]2	unknown	CAL \$0Cnn [Cycles]7	CAL \$1Cnn [Cycles]7
D	SBN [Cycles]7+3*1	SLW [Cycles]5+1	JRM \$nn [Cycles]7	unknown	NOPW [Cycles]2	OUTA [Cycles]3	unknown	JPNC \$nnnn [Cycles]6	LP \$0D [Cycles]2	LP \$1D [Cycles]2	LP \$2D [Cycles]2	LP \$3D [Cycles]2	(Compatible with 4DH) NOPW	OUTB [Cycles]2	CAL \$0Dnn [Cycles]7	CAL \$1Dnn [Cycles]7
E	ADW [Cycles]7+3*1	FILM [Cycles]5+1	unknown	unknown	WAIT \$nn [Cycles]6+\$nn	unknown	unknown	JPZ \$nnnn [Cycles]6	LP \$0E [Cycles]2	LP \$1E [Cycles]2	LP \$2E [Cycles]2	LP \$3E [Cycles]2	NOPT [Cycles]3	unknown	CAL \$0Enn [Cycles]7	CAL \$1Enn [Cycles]7
F	SBW [Cycles]7+3*1	FILD [Cycles]4+3*1	LOOP \$nn [Cycles]10/7	unknown	CUP [Cycles]1+4*1	OUTF [Cycles]3	CDN [Cycles]1+4*1	JPC \$nnnn [Cycles]6	LP \$0F [Cycles]2	LP \$1F [Cycles]2	LP \$2F [Cycles]2	LP \$3F [Cycles]2	unknown	OUTC [Cycles]2	CAL \$0Fnn [Cycles]7	CAL \$1Fnn [Cycles]7

Symbol	Comment
\$nn , nn	8bit Immediate (0 – 255)
\$nnnn	16bit Immediate (0 – 65535)