SUBLW

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SUBLW	Subtrac	Subtract W from literal		
Syntax:	[label]	[label] SUBLW k		
Operands:	$0 \le k \le 2$	$0 \le k \le 255$		
Operation:	k – (W) -	$k - (W) \rightarrow W$		
Status Affected:	N, OV, C	N, OV, C, DC, Z		
Encoding:	0000	0000 1000 kkkk kkkk		
Description:		W is subtracted from the eight-bit literal 'k'. The result is placed in W.		
Words:	1			
Cycles:	1			
Q Cycle Activity:	:			
Q1	Q2	Q3	Q4	
Decode	Read literal 'k'	Process Data	Write to W	
Example 1: SUBLW 0x02				
Before Instruction				
W	= 1			
C After Instruct	= ?			
Arter Instruct W				
C Z	= 1 = 1 ; re	esult is positive)	
Z N	= 0	•		
Example 2:	SUBLW	SUBLW 0x02		
Before Instruction				
W	= 2 = ?			
After Instruction				
W	= 0			
C Z N	= 1 ; re	esult is zero		
N	= 0			
Example 3:	SUBLW	0x02		
Before Instruction				
W	= 3			
C After Instruct	= ?			
W		2's complement	t)	
	= 0 ; re:	sult is negative		
C Z N	= 0 = 1			
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