0 1	51113	CLIDELVID	
Syntax:	label	SUBFWB	t I d I a I
- jiiiconii	[101001	0001110	. [,~[,~]

Operands: $0 \le f \le 255$

 $d \in [0,1]$ $a \in [0,1]$

 $(W) - (f) - (\overline{C}) \rightarrow dest$ Operation:

Status Affected: N, OV, C, DC, Z

Encoding: 0101 01da ffff ffff

Description: Subtract register 'f' and carry flag

(borrow) from W (2's complement method). If 'd' is 0, the result is stored in W. If 'd' is 1, the result is stored in register 'f' (default). If 'a' is 0, the Access Bank will be selected, overriding the BSR value. If 'a' is 1, then the bank will be selected as

per the BSR value (default).

Words: 1

Cycles: 1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read	Process	Write to
	register 'f'	Data	destination

Example 1: REG, 1, 0 SUBFWB

Before Instruction

REG = 3 W 2 = C 1

After Instruction

REG FF = 2 W = C = 0 0 =

; result is negative

REG, 0, 0 Example 2: SUBFWB

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Before Instruction
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REG 2 5 W = C 1

After Instruction

REG W CZN 1 = 0

; result is positive 0

Example 3:

SUBFWB

REG, 1, 0

Before Instruction

REG 1 W 2 = C 0

After Instruction

REG = 0 W = 2 C Z N 1 = 1

; result is zero

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