

DAW

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DAW	Decimal Adjust W Register			
Syntax:	[<i>label</i>] DAW			
Operands:	None			
Operation:	If [W<3:0> >9] or [DC = 1] then (W<3:0>) + 6 → W<3:0>; else (W<3:0>) → W<3:0>; If [W<7:4> >9] or [C = 1] then (W<7:4>) + 6 → W<7:4>; else (W<7:4>) → W<7:4>;			
Status Affected:	C			
Encoding:	0000	0000	0000	0111
Description:	DAW adjusts the eight-bit value in W, resulting from the earlier addition of two variables (each in packed BCD format) and produces a correct packed BCD result.			
Words:	1			
Cycles:	1			
Q Cycle Activity:				
	Q1	Q2	Q3	Q4
	Decode	Read register W	Process Data	Write W

Example1: DAW

Before Instruction

W = 0xA5
C = 0
DC = 0

After Instruction

W = 0x05
C = 1
DC = 0

Example 2:

Before Instruction

W = 0xCE
C = 0
DC = 0

After Instruction

W = 0x34
C = 1
DC = 0

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