Syntax: [label] DAW

Operands: None

Operation: If [W<3:0>>9] or [DC=1] then

 $(W<3:0>) + 6 \rightarrow W<3:0>$;

else

 $(W<3:0>) \to W<3:0>;$

If [W<7:4>>9] or [C=1] then $(W<7:4>) + 6 \rightarrow W<7:4>$;

else

 $(W<7:4>) \rightarrow W<7:4>;$

Status Affected: C

Encoding:

0000	0000	0000	0111
	A17300-000000000	The state of the s	400000000000000000000000000000000000000

Description: DAW adjusts the eight-bit value in

W, resulting from the earlier addi-

tion 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	Process	Write
	register W	Data	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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