

Subtracting BCD 8-digit data

DB-(P) [using two operands]

FX5S

FX5UJ

FX5U

FX5UC

These instructions subtract the BCD 8-digit data in the device specified by (d) and the BCD 8-digit data in the device specified by (s), and store the result in the device specified by (d).

Ladder diagram	Structured text
	Not supported Page 257 DB-(P) [using three operands]
FBD/LD	
Not supported. Page 257 DB-(P) [using three operands]	

Setting data

■Descriptions, ranges, and data types

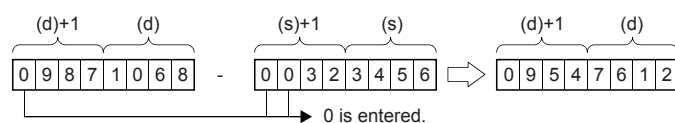
Operand	Description	Range	Data type	Data type (label)
(s)	Subtrahend data or the head device where the data to be subtracted from another is stored	0 to 99999999	BCD 8-digit	ANY32
(d)	Minuend data or the head device where the data from which another is to be subtracted is stored	0 to 99999999	BCD 8-digit	ANY32

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	\$	
(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—	—	—
(d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—	—	—	—

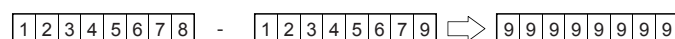
Processing details

- These instructions subtract the BCD 8-digit data specified by (d) and the BCD 8-digit data specified by (s), and store the results in the device specified by (d).



(d)+1, (s)+1	(d), (s)
Upper 4 digits	Lower 4 digits

- If an underflow occurs, the result will be as follows. In this case, the carry flag (SM700) does not turn ON.



Operation error

Error code (SD0/SD8067)	Description
3405H	BCD data in the device specified by (s) is outside of the valid range (0 to 99999999).
	BCD data in the device specified by (d) is outside of the valid range (0 to 99999999).

DB-(P) [using three operands]

FX5S

FX5UJ

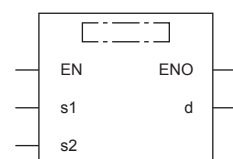
FX5U

FX5UC

These instructions subtract the BCD 8-digit data specified by (s1) and the BCD 8-digit data specified by (s2), and store the results in the device specified by (d).

Ladder diagram	Structured text
	<pre>ENO:=DBMINUS(EN,s1,s2,d); ENO:=DBMINUSP(EN,s1,s2,d);</pre>

FBD/LD



("DBMINUS", "DBMINUSP" enters □.)

Setting data

■Descriptions, ranges, and data types

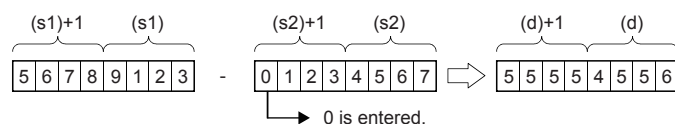
Operand	Description	Range	Data type	Data type (label)
(s1)	Minuend data or the head device where the data from which another is to be subtracted is stored	0 to 99999999	BCD 8-digit	ANY32
(s2)	Subtrahend data or the head device where the data to be subtracted from another is stored	0 to 99999999	BCD 8-digit	ANY32
(d)	Head device for storing the operation result	0 to 99999999	BCD 8-digit	ANY32
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	\$	
(s1)	○	○	○	○	○	○	○	○	—	—	—
(s2)	○	○	○	○	○	○	○	○	—	—	—
(d)	○	○	○	○	○	○	○	—	—	—	—

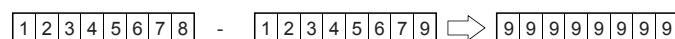
Processing details

- These instructions subtract the BCD 8-digit data specified by (s1) and the BCD 8-digit data specified by (s2), and store the results in the device specified by (d).



(d)+1, (s1)+1, (s2)+1	(d), (s1), (s2)
Upper 4 digits	Lower 4 digits

- If an underflow occurs, the result will be as follows. In this case, the carry flag (SM700) does not turn ON.



Operation error

Error code (SD0/SD8067)	Description
3405H	BCD data in the device specified by (s1) is outside of the valid range (0 to 99999999).
	BCD data in the device specified by (s2) is outside of the valid range (0 to 99999999).