

6.4 Shift Instructions

Shifting bit devices

SFT(P)

FX5S FX5UJ FX5U FX5UC

- In case of bit device:

These instructions shift the ON/OFF status of the device before the device specified by (d) to the device specified by (d).

- When bit of word device is specified:

These instructions shift the 1/0 status of the bit before the bit specified by (d) to the bit specified by (d).

Ladder diagram	Structured text
	ENO:=SFT(EN,d); ENO:=SFTP(EN,d);

FBD/LD

Setting data

■ Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(d)	Head device number to be shifted	—	Bit	ANY_BOOL
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■ Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others (DY)
		X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC		K, H	E	\$	
(d)	○	○ ^{*1}	—	—	—	—	—	—	—	—	○

*1 T, ST, and C cannot be used.

Processing details

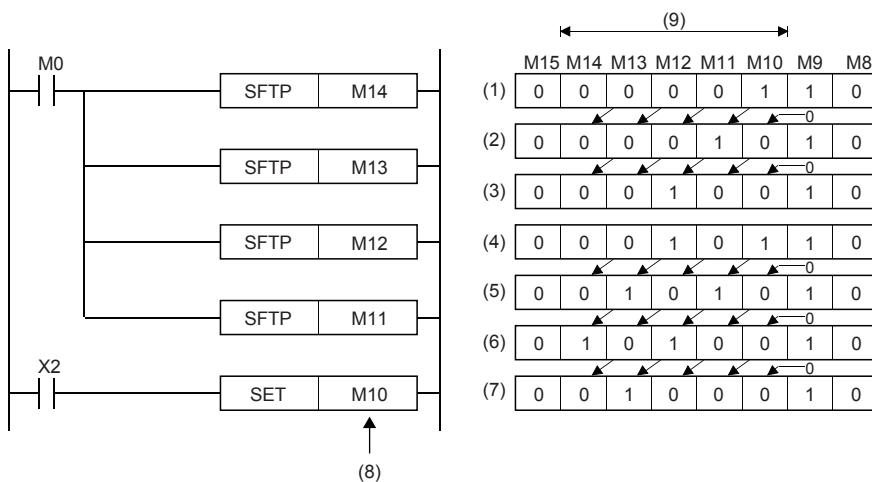
In case of bit device

- This instruction shifts the ON/OFF status of the device before the device specified by (d) to the device specified by (d). The device before the device specified by (d) turns OFF.

Ex.

When M11 is specified by the SFTP instruction and the SFTP instruction is executed, the ON/OFF status of M10 is shifted to M11 and M10 is turned OFF.

- Turn ON the first device to be shifted by the SET instruction.
- When the SFT(P) instruction is used consecutively, create the program to start from the device with the largest number.



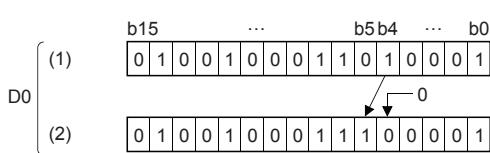
- (1): X2 ON
- (2): After the 1st shift input
- (3): After the 2nd shift input
- (4): X2 ON
- (5): After the 3rd shift input
- (6): After the 4th shift input
- (7): After the 5th shift input
- (8): First device of shift
- (9): Shift range

When bit of word device is specified:

- This instruction shifts the 1/0 status of the bit before the bit specified by (d) to the bit specified by (d). The bit before the bit specified by (d) becomes 0.

Ex.

When D0.5 (bit 5 (b5) of D0) is specified by the SFT(P) instruction and the SFT(P) instruction is executed, the 1/0 status of b4 of the D0 is shifted to b5 and b4 is set to 0.



- (1): Before shift execution
- (2): After shift execution

Operation error

Error code (SD0/SD8067)	Description
2820H	The device specified by (d) exceeds the corresponding device range.