

SRP-275II Command Manual

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1. Notice

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2. SRP-275II Supported Commands

No.	Command	Function
1	EOT	Transmit status
2	HT	Horizontal tab
3	LF	Print and line feed
4	CR	Print and carriage return
5	DLE	Set real-time command mode
6	DC4	Generate pulse
7	ESC SP	Set the character right space
8	ESC!	Set print mode
9	ESC %	Select/cancel user-defined character set
10	ESC &	Define user-defined character set
11	ESC *	Specify bit image mode
12	ESC -	Turn underline mode on/off
13	ESC 2	Select default line spacing
14	ESC 3	Set line spacing
15	ESC <	Return home
16	ESC =	Select peripheral device
17	ESC?	Cancel user-defined characters
18	ESC @	Initialize printer
19	ESC D	Set horizontal tab positions
20	ESC E	Turn emphasized mode on/off
21	ESC G	Turn double-strike mode on/off
22	ESC J	Print and feed paper
23	ESC K	Print and reverse feed
24	ESC M	Select character font
25	ESC R	Specify an international character set
26	ESC R S	Stores international character set to NV memory
27	ESC U	Specify unidirectional print mode
28	ESC a	Set position alignment

No.	Command	Function
29	ESC d	Print and feed n lines
30	ESC e	Print and reverse feed n lines
31	ESC g 0	Define macro (For logo)
32	ESC g n	Execute macro (For logo)
33	ESC i	Partial cut (one point left uncut)
34	ESC m	Partial cut (one point left uncut)
35	ESC p	Generate pulse
36	ESC r	Select print color
37	ESC t	Select character code table
38	ESC u	Transmit peripheral device status
39	ESC v	Transmit paper sensor status
40	ESC {	Turn upside-down print mode on/off
41	FS!	Set print mode for Kanji characters
42	FS &	Select Kanji character mode
43	FS -	Turn underline mode on/off for Kanji characters
44	FS.	Cancel Kanji character mode
45	FS 2	Specify user-defined Kanji characters
46	FS p	Print NV bit image
47	FS q	Define NV bit image
48	FS S	Set Kanji character spacing
49	FS W	Turn quadruple-size mode on/off for Kanji characters
50	FS (L	Feeds paper to the cutting position
51	FS?	Cancel user-defined Kanji characters
52	GS (A	Execute test print
53	GSI	Transmit printer ID
54	GS V	Select cut mode and cut paper
55	GS a	Enable/disable Automatic Status Back (ASB)
56	GS r	Transmit status

2-1 Command Description Items

Command

Function: Command function outline

Code: Command format expressed in ASCII, hexadecimal, and decimal codes

Range: Argument value (Setting range) for the command

Default: Initial argument value for the command

Description: Detailed command function description

Remarks: Additional information about using the command

Differences: Variations depending on the printer model

EOT

Function: Transmit status

Code:

ASCII	EOT	n
Hex	04	n
Decimal	4	n

Range: $1 \le n \le 4$

Default: None

Description: This command transmits the printer-related status specified by n as follows:

n	Function
1	Transmit printer status
2	Transmit off-line status
3	Transmit error status
4	Transmit paper roll sensor status

■ Printer transmits the following status

n=1: Printer status

Bit	Binary	Hex	Decimal	Status
0	0	00	0	Not used. Fixed to Off
1	1	02	2	Not used. Fixed to On
2	0	00	0	Drawer kick-out connector pin 3 is LOW
2	1	04	4	Drawer kick-out connector pin 3 is HIGH
3	0	00	0	Online
3	1	80	8	Offline
4	1	10	16	Not used. Fixed to On
5	0	00	0	Not used. Fixed to Off
6	0	00	0	Not used. Fixed to Off
7	0	00	0	Not used. Fixed to Off

n=2: Off-line status

Bit	Off/On	Hex	Decimal	Status
0	Off	00	0	Fixed
1	On	02	2	Fixed
2	Off	00	0	Cover is closed
	On	04	4	Cover is open
3	Off	00	0	Paper is not being fed by using the paper FEED button
3	On	08	8	Paper is being fed by the paper FEED button
4	On	10	16	Fixed
5	Off	00	0	No paper-end stop
5	On	20	32	Printing is being stopped
6	Off	00	0	No error
6	On	40	64	Error has occurred
7	Off	00	0	Fixed

n=3: Error status

Bit	Binary	Hex	Decimal	Status
0	0	00	0	Not used. Fixed to Off
1	1	02	2	Not used. Fixed to On
2	0	00	0	No mechanical error
	1	04	4	Mechanical error occurred
2	0	00	0	No autocutter error
3	1	08	8	Autocutter error occurred
4	1	10	16	Not used. Fixed to On
5	0	00	0	No unrecoverable error
5	1	20	32	Unrecoverable error occurred
6	0	00	0	No auto-recoverable error
0	1	40	64	Auto-recoverable error occurred
7	0	00	0	Not used. Fixed to Off

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n=4: paper sensor status

Bit	Binary	Hex	Decimal	Status
0	0	00	0	Not used. Fixed to Off
1	1	02	2	Not used. Fixed to On
2,3	00	00	0	Paper near end sensor: paper adequate
2,3	11	0C	12	Paper near end sensor: paper near end
4	1	10	16	Not used. Fixed to On
5.6	00	00	0	Paper end sensor: paper present
5,6	11	60	96	Paper end sensor: paper not present
7	0	00	0	Not used. Fixed to Off

Remarks:

- This command can be executed in a real time mode using DLE.
- In a real time mode, the status is transmitted to the host upon being requested that can check the printer operational condition with it and takes appropriate measures accordingly.

HT

Function: Horizontal tab

Code:

ASCII	H
Hex	09
Decimal	9

Range: None

Default: None

Description: This command moves the print position to the next horizontal tab position. If the next horizontal tab position is not

specified, this command will be void.

Remarks: ■ The horizontal tab position is set by <ESC> D.

■ With the underline mode turned on, the underline printing is not applied to the tab space created by this command.

LF

Function: Print and line feed

Code:

ASCII	LF
Hex	0A
Decimal	10

Range: None

Default: None

Description: This command prints the data in the print buffer and feeds one line based on the current set line spacing in standard

mode.

Remarks: In page mode, the printer does not perform actual printing, but moving only the print position to the next line.

CR

Function: Print and carriage return

Code: ASCII

ASCII	CR
Hex	0D
Decimal	13

Range: None

Default: None

Description: This command prints the data. With auto line feed enabled, it performs printing and one line feeding same as LF.

Remarks: Auto line feed is only enabled with a parallel interface using the DIP switch.

Differences: ■ Auto line feed is turned on by setting DIP S/W 2-1

DLE

Function: Set real-time command mode

Code: ASCII

ASCII	DLE
Hex	10
Decimal	16

Range: None

Default: None

Description: This command enables commands to be operable in real-time.

Remarks: A single command following this command is regarded as a real time command.

■ The real time command is stored into the receive buffer and executed with higher priority than other commands.

■ If this command is processed as a parameter of the other command, the data following this command might bring about the unwanted result.

■ The commands that are allowed to be executed in real time mode vary depending on the printer model.

Differences: ■ Commands that can be executed in real time mode: EOT, DC4, GS I,GS a, GS r

DC4

Function: Generate pulse

Code:

ASCII	DC4	n	m	t
Hex	14	n	m	t
Decimal	20	n	m	t

Range: $n = 1, m=0,1, 1 \le t \le 8$

Default: None

Description: This command generates the drive pulse to connector pin m with pulse width defined by t as following:

• Drawer kick-out connector pin 2 is selected with m=0 while pin 5 chosen for m=1.

• Pulse ON time is [t x100 ms] and OFF time [t x100 ms]

Remarks:

This command can be executed in a real time mode by placing DLE prior to it.

■ In a real time mode, upon receiving this command, the printer outputs the drive pulse to the specified connector pin.

ESC SP

Function: Set the character right space

Code:

ASCII	ESC	SP	n
Hex	1B	20	n
Decimal	27	32	n

Range: $0 \le n \le 255$

Default: n=0

Description: This command sets the size of space to right of character.

• Right space = n x [horizontal motion units].

Remarks: In a double width mode, the right space will be doubled.

■ Horizontal motion unit varies depending the printer model.

Differences: ■ Horizontal motion unit: 0.159mm(1/160 inch)

ESC!

Function: Set print mode

Code:

ASCII	ESC	!	n
Hex	1B	21	n
Decimal	27	33	n

Range: $0 \le n \le 255$

Default: n=0

Description: Th

This command selects print mode(s) with bits having following meanings.

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Character font A selected
U	On	01	1	Character font B selected
1,2	Off	00	0	Reserved
3	Off	00	0	Emphasized mode not selected
3	On	80	8	Emphasized mode selected
4	Off	00	0	Double-height mode not selected
4	On	10	16	Double-height mode selected
5	Off	00	0	Double-width mode not selected
5	On	20	32	Double-width mode selected
6	Off	00	0	Reserved
7	Off	00	0	Underline mode not selected
/	On	80	128	Underline mode selected

Remarks:

- As alternative to this command, ESC M, ESC E and ESC can be used for the selection for character font, emphasized mode and underline mode respectively.
- The entire character print width is underlined, but the space skipped by HT is not.
- If both double width and double height are selected, the characters will be quadrupled.

Differences: \blacksquare Character configuration(Font A, Font B): Font A(9 × 9), Font B(7 x 9)

ESC %

Function: Select/cancel user-defined character set

Code:

ASCII	ESC	%	n
Hex	1B	25	n
Decimal	27	37	n

Range: $0 \le n \le 255$

Default: n = 0

Description: ■ This command selects/deselects user-defined character set that is downloaded by user. To make it valid, the least

significant bit should be defined like following.

• When n=0, the user-defined character set is deselected.

• When n=1, the user-defined character set is selected.

Remarks: The resident character set is enabled and used right after canceling the user defined character set.

ESC &

Function: Define user-defined character set

Code:

ASCII	ESC	&	y c´	c2 [x1	d1 d(y × x1)] [xk	d1 d(y × xk)]
Hex	1B	26	y c	c2 [x1	d1 d(y × x1)] [xk	d1 d(y × xk)]
Decimal	27	38	y c	c2 [x1	d1 d(y × x1)] [xk	d1 d(y × xk)]

Range: y = 2

 $32 \le c1 \le c2 \le 126$

 $0 \le x \le 12$ (Font A) $0 \le x \le 10$ (Font B)

 $0 \le d \le 255$ k = c2 - c1 + 1

Default: None

Description:

- This command defines user-defined characters for character codes in a designated range from the start character code, c1 to the end character code, c2.
 - y denotes the number of bytes in the vertical direction, x the number of dots in the horizontal direction, and d the dot data for the user-defined characters.

Remarks:

- Alphanumeric characters (20H (decimal 32) to 7EH (decimal 126)) are definable.
- Once user defined characters are defined, they remain available until they are redefined; ESC ? or ESC @ is executed; the printer is reset.
- The following shows the relationship between the definition data and printing result with downloaded character consisting of 9x7 dots.

d1	d3	d5	d7	d9	d11	d13	MSB LSB
d2	d4	d6	d8	d10	d12	d14	MSB LSB

Differences: \blacksquare Character configuration(Font A, Font B): Font A(9 × 9), Font B(7 x 9)

ESC *

Function: Specify bit image mode

Code:

ASCII	ESC	*	m	nL	nΗ	d1dk
Hex	1B	2A	m	nL	nΗ	d1dk
Decimal	27	42	m	nL	nΗ	d1dk

Range: m = 0, 1

 $0 \le nL \le 255$ $0 \le nH \le 3$ $0 \le d \le 255$

 $k = nL + nH \times 255$

Default: None

Description: ■ This command specifies the bit image for the mode m as to the number of dots specified by nL and nH.

• d specifies the bit image data with 1 for printed data and 0 for not printed.

k denotes the number of horizontal dots.

DPI: Dots per Inch (25.4mm)

m	Mode	Number of dots in vertical direction	Vertical dot density (DPI)	Horizontal dot density (DPI)	Number of bytes (k)
0	8-dot single-density	8	203/3	203/2	nL + nH x 256
1	8-dot double-density	8	203/3	203	nL + nH x 256
32	24-dot single-density	24	203	203/2	(nL + nH x 256) x 3
33	24-dot double-density	24	203	203	(nL + nH x 256) x 3

Remarks:

- If the bit image data being entered is beyond the number of dots to be printed, the surplus will be discarded.
- If the value of m is beyond the conditions, the subsequent data after m will be treated as normal data.

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Differences:

DPI: Dots per Inch (25.4mm)

m	Mode	Number of dots in vertical direction	Vertical dot density (DPI)	Horizontal dot density (DPI)	Number of bytes (k)
0	8-dot single-density	8	72	80	nL + nH x 256
1	8-dot double-density	8	72	160	nL + nH x 256

ESC -

Function: Turn underline mode on/off

Code:

ASCII	ESC	-	n
Hex	1B	2D	n
Decimal	27	45	n

Range: $0 \le n \le 2, 48 \le n \le 50$

Default: n=0

Description:

■ This command enables the print data following it to be printer out underlined.

• The underline mode varied depending on the following values of n:

n	Function	
0,48	0,48 Turns off underline mode	
1,49	Turns on underline mode, set at 1-dot thick	
2,50	Turns on underline mode, set at 2-dot thick	

Remarks:

■ The spaces generated by horizontal tab are not underlined.

■ Using bit 7 of ESC!, the underline mode can be activated/deactivated as well.

ESC 2

Function: Select default line spacing

Code:

ASCII	ESC	2
Hex	1B	32
Decimal	27	50

Range: None

Default: None

Description: This command sets the default line spacing The default line spacing is approximately 3.75 mm, which is equivalent to 30

dots.

Remarks: The line spacing can be set independently in standard mode and in page mode.

■ The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

Differences: ■ Default line spacing: 4.23 mm(12 dots)

ESC 3

Function: Set line spacing

Code:

ASCII	ESC	3	n
Hex	1B	33	n
Decimal	27	51	n

Range: $0 \le n \le 255$

Default: Corresponding to the default line spacing defined by ESC 2

Description: This command sets the line spacing using a following rule.

• Line spacing = n x (vertical or horizontal motion units)

Remarks: With standard mode selected, the vertical motion unit is used.

■ In page mode, the horizontal motion unit is applied when printing start poison is defined to the upper right or lower right of print area using ESC T, otherwise, the vertical motion unit is used.

■ The line spacing is settable independently for each of standard and page modes.

Differences: • Vertical or horizontal motion unit and maximum line spacing settable:

Model	Vertical unit	Horizontal unit	Max line spacing
SRP-275II	0.176mm (1/144 inches)	0.176mm (1/144 inches)	44.98mm

ESC <

Function: Return home

Code:

ASCII	ESC	٧
Hex	1B	3C
Decimal	27	60

Range: None

Default: None

Description: This command moves the print head to the standby position.

Remarks:

The standard position is on the left.

■ After processing this command, the print position may be readjusted.

ESC =

Function: Select peripheral device

Code:

ASCII	ESC	=	n
Hex	1B	3D	n
Decimal	27	61	n

Range: $1 \le n \le 3$

Default: None

Description:

This command selects the device to which the host computer communicates according to n as follows:

n	Function	
1	Enables the printer	
2	Disables the printer	
3	Enables the printer	

Remarks:

- The printer discards all of the received data commands with the exception of ESC = and real-time commands while being disabled.
- The normal operation will be resumed by ESC @, power cycling or printer reset.
- If ASB is activated when the printer is disabled by this command, the status is transmitted to the host at a preset interval.

ESC?

Function: Cancel user-defined characters.

Code:

ASCII	ESC	?	n
Hex	1B	3F	n
Decimal	27	63	n

Range: $32 \le n \le 126$

Default: None

Description: This command removes user-defined character specified by character code n.

Remarks: In place of the deleted user-defined character, the cooresponding resident character is printed.

■ The user-defined characters for each font can be deleted independently.

ESC @

Function: Initialize printer

Code:

ASCII	ESC	@
Hex	1B	40
Decimal	27	64

Range: None

Default: None

Description: This command cancels conditions previously set and initializes the printer to the conditions having existed at power on.

Remarks:

The data in the printer buffer is cleared.

■ The settings of DIP switch are not re-read.

■ The data in the receive buffer is not discarded.

■ All of the settings such as print mode and line feed are cleared.

■ NV graphics and NV user memory are not cleared.

■ In page mode, this command removes the data in print areas, restores the initial settings and returns to standard mode.

ESC D

Function: Set horizontal tab position

Code:

ASCII	ESC	D	n1nk	NUL
Hex	1B	44	n1nk	00
Decimal	27	68	n1nk	0

Range: $1 \le n \le 255, 0 \le k \le 32$

Default: n=8, 16, 24, 32, 40,...., 232, 240, 248

Description: This command sets the horizontal tab position.

- n defines the number of columns from the beginning of the line to the horizontal tab setting.
- k denotes the number of horizontal tab positions to be set.
- The horizontal tab position is stored as a value of [character width x n] measured form the beginning of the line.

Remarks: The data [n]k signifying the set position is transmitted in the ascending order and ends with a NUL code.

- ESC D NUL cancels all horizontal tab positions.
- Tab position is set at the value of [character width x n] from the beginning of the line.
- The character width includes the space to the right of the character, and it will be twice the normal character when the double width characters are selected.
- If the data [n]k is equal to or smaller than the preceding data [n]k-1, the horizontal tab setting has been completed.
- Up to 32 horizontal tabs can be set, the data exceeding this limit is processed as normal ones.
- Even if the character width is changed after setting the horizontal tab positions, the horizontal tab positions remain unchanged.

ESC E

Function: Turn emphasized mode on / off

Code:

ASCII	ESC	Е	n
Hex	1B	45	n
Decimal	27	69	n

Range: $0 \le n \le 255$

Default: n=0

Description: This command turns emphasized mode on or off by toggling the least significant bit of n like following.

• When the LSB of n is 0, emphasized mode is turned off.

• When the LSB of n is 1, emphasized mode is turned on.

Remarks: ■ The setting of this command remains effective until ESC !, ESC @, printer reset or power cycling is executed.

Differences: ■ In the emphasized mode, the print speed will be slow because 2-pass print starts.

ESC G

Function: Turn double-strike mode on/off

Code:

ASCII	ESC	G	n
Hex	1B	47	n
Decimal	27	71	n

Range: $0 \le n \le 255$

Default: n=0

Description: This command turns double-strike mode on or off by toggling the least significant bit of n like following.

• When the LSB of n is 0, emphasized mode is turned off.

• When the LSB of n is 1, emphasized mode is turned on.

Remarks: ■ The setting of this command remains effective until ESC !, ESC @, printer reset or power cycling is executed.

Differences: In the double-strike mode, the print speed will be slow because 2-pass print starts.

ESC J

Function: Print and feed paper

Code:

ASCII	ESC	J	n
Hex	Hex 1B		n
Decimal	27	74	n

Range: $0 \le n \le 255$

Default: None

Description: This command prints the data in the print buffer and feeds the paper [n X vertical motion unit].

Remarks: The maximum feed amount available varies depending on the printer model.

■ With standard mode selected, the vertical motion unit is used.

■ In page mode, the horizontal motion unit is applied when printing start poison is defined to the upper right or lower right of print area using ESC T, otherwise, the vertical motion unit is used.

■ When used in page mode, this command moves only the print position, not executing actual printing.

Differences:

■ Vertical motion unit and maximum feed amount:

Model Vertical unit		Max feed amount
SRP-275II	0.176mm (1/144 inches)	44.98mm

ESC K

Function: Print and reverse feed

Code:

ASCII	ESC K		n
Hex	1B	4B	n
Decimal	27	75	n

Range: $0 \le n \le 48$

Default: None

Description: This command prints the data in the print buffer and feeds the paper n x (vertical motion unit) in the reverse direction.

Remarks: With standard mode selected, the vertical motion unit is used.

■ In page mode, the horizontal motion unit is applied when printing start poison is defined to the upper right or lower right of print area using ESC T, otherwise, the vertical motion unit is used.

■ When used in page mode, this command moves only the print position, not executing actual printing.

■ The reverse paper feeding may cause unexpected problems such as incorrect paper feeding, unusual noise and paper rubbing against the ink ribbon.

ESC M

Function: Select character font

Code:

ASCII	ESC M		n
Hex	1B	4D	n
Decimal	27	77	n

Range: n = 0, 1, 48, 49

Default: n=1

Description: None

Remarks: The printer model has it own configuration of Font A and B.

■ The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

ESC R

Function: Specify international character set

Code:

ASCII	ESC	R	n
Hex	1B	52	n
Decimal	27	82	n

Range: 0≤ n≤11

Default: n=0

Description: This command specifies international characters according to n values.

n	Character set	n	Character set
0	U.S.A	7	Spain I
1	France	9	Norway
2	Germany	10	Denmark II
3	U.K	11	Spain II
4	Denmark I	12	Latin America
5	Sweden	13	Korea
6	Italy		

Remarks: The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

Differences: \blacksquare When n = 11, PC-999 is available. There is no character set specified by n=12, 13.

ESC R S

Function: Stores international character set to NV memory

Code:

ASCII	ESC	R	S	n
Hex	1B	52	53	n
Decimal	27	82	83	n

Range: $0 \le n \le 13$

Default: n=0

Description: This command stores international characters specified by n values into the NV memory.

n	Character set	n	Character set
0	U.S.A	7	Spain I
1	France	9	Norway
2	Germany	10	Denmark II
3	U.K	11	Spain II
4	Denmark I	12	Latin America
5	Sweden	13	Korea
6	Italy		

Remarks:

The setting of this command remains effective even after ESC @, printer reset or power cycling is executed.

Differences: \blacksquare When n = 11, PC-999 is available. There is no character set specified by n=12, 13.

ESC U

Function: Specify unidirectional print mode

Code:

ASCII	ESC	U	n
Hex	1B	55	n
Decimal	27	85	n

Range: $0 \le n \le 255$

Default: n = 0

Description: ■ This command selects/deselects the unidirectional print according to the value of n that is valid only for the least

significant bit.

• Unidirectional print mode is turned on with n=0, and turned off with n=1

Remarks: In this mode, the printer will print from the left to the right, preventing horizontal shear in printing, in particular, for

double height print.

■ The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

ESC a

Function: Set position alignment

Code:

ASCII	ESC	а	n
Hex	1B	61	n
Decimal	27	97	n

Range: $0 \le n \le 2, 48 \le n \le 50$

Default: n=0

Description: This command specifies position alignment for all data in one line in standard mode, using n as follows:

n	Alignment
0, 48	Left alignment
1, 49	Center alignment
2, 50	Right alignment

Remarks:

- This command is not effective in page mode. If this command is processed in page mode, the setting by this command becomes effective when the printer returns to standard mode.
- The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

ESC d

Function: Print and feed n lines.

Code:

ASCII	ESC	d	n
Hex	1B	64	n
Decimal	27	100	n

Range: $0 \le n \le 255$

Default: None

Description: This command feeds the paper by n lines after printing the data in the print buffer.

Remarks:

The per-line paper feed amount is based on the value set by the line spacing related commands, ESC 2 and ESC 3.

■ In page mode, this command moves only the print position, not performing actual print.

■ If the feed amount set is beyond the maximum feed amount, the feed amount will be set to the maximum feed

amount automatically.

Differences: ■ Maximum feed amount: 255 lines.

ESC e

Function: Print and reverse feed n lines.

Code:

ASCII	ESC	е	n
Hex	1B	65	n
Decimal	27	101	n

Range: $0 \le n \le 1$

Default: None

Description: This command feeds the paper by n lines in the reverse direction after printing the data in the print buffer.

Remarks:

The per-line paper feed amount is based on the value set by the line spacing related commands, ESC 2 and ESC 3.

■ In page mode, this command moves only the print position, not performing actual print.

Differences:

The maximum reverse paper feed amount is 1 line to prevent the paper jam and paper rubbing against the ink ribbon.

ESC g 0

Function: Define macro

Code:

ASCII	ESC	g	0	$< k > [< nH > < nL >]_k [d1dm]_k$
Hex	1B	67	00	$< k > [< nH > < nL >]_k [d1dm]_k$
Decimal	27	103	0	$< k > [< nH > < nL >]_k [d1dm]_k$

Range: $k \le 10$

 $0 \le nL \le 255$ $0 \le nH \le 255$

 $[(256 \times nH) + nL]_1 + + [(256 \times nH) + nL]_k < 2Mbit (256KB)$

 $0 \le d \le 255$

Default: None

Description: This command defines macro into NV memory such as a logo image.

• k denotes the total number of macro to be stored in NV memory.

• m=(256x nH) + nL specifies the size of macro in byte

Remarks: ■ 2M bit (256KB) of the flash is allocated for saving NV bit image.

■ This command is useful to define NV bit image (Logo).

■ The NV bit image is printed by ESC g n.

ESC g n

Function: Execute macro

Code:

ASCII	ESC	g	n
Hex	1B	67	n
Decimal	27	103	n

Range: $1 \le n \le 10$

Default: None

Description: ■ This command executes macro using the value of n.

> • n denotes the macro index number that is automatically given to the macro in a downloading order while being defined by ESC g.

Remarks:

■ The NV bit image should be defined by ESC g preceding this command. When executing the macro not being defined, this command is ignored.

ESC i

Function: Partial cut

Code:

ASCII	ESC	i
Hex	1B	69
Decimal	27	105

Range: None

Default: None

Description: This command executes a partial cut of the paper with one point left uncut.

Remarks:

The same partial cut as this command is executed using ESC m and GS V.

Differences: This command is effective for the printer equipped with an autocutter.

■ Autocutter operation should be enabled by setting the autocutter control DIP switch.

■ If the autocutter control DIP switch of the printer not equipped with autocutter is set, the printer does not operate, displaying the error signal by LED.

ESC m

Function: Partial cut

Code:

ASCII	ESC	m
Hex	1B	6D
Decimal	27	109

Range: None

Default: None

Description: This command executes a partial cut of the paper with one point left uncut.

Remarks:

The same partial cut as this command is executed using ESC i and GS V.

Differences: This command is effective for the printer equipped with an autocutter.

■ Autocutter operation should be enabled by setting the autocutter control DIP switch.

■ If the autocutter control DIP switch of the printer not equipped with autocutter is set, the printer does not operate, displaying the error signal by LED.

ESC p

Function: Generate pulse

Code:

ASCII	ESC	р	m	t1	t2
Hex	1B	70	m	t1	t2
Decimal	27	112	m	t1	t2

Range: m = 0, 1, 48, 49

 $0 \le t1 \le 255, 0 \le t2 \le 255$

Default: None

Description: This command outputs the signals specified with t1 and t2 to the connector pins defined by m.

m	Connector pin
0, 48	Drawer kick-out connector pin 2
1, 49	Drawer kick-out connector pin 5

Remarks: The ON time is [t1 x 2ms], and the OFF time is as [t2 x 2ms].

• If t2 is smaller than t1, OFF time is set to [t1 x 2ms].

ESC r

Function: Select print color

Code:

ASCII	ESC	r	n
Hex	1B	72	n
Decimal	27	114	n

Range: n = 0, 1, 48, 49

Default: n = 0

Description: This command selects a print color for each line, using n as follows.

• When n = 0 or 48, black is selected.

• When n=1 or 49, red is selected.

Remarks: In standard mode, this command is valid only when processed at the beginning of the line.

■ In page mode, the color selected by this command is applied to all data collectively printed by FF.

■ GS (N and GS (L can be used to specify two-color printing.

■ The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

ESC t

Function: Select character code table

Code:

ASCII	ESC	t	n
Hex	1B	74	n
Decimal	27	116	n

Range: $0 \le n \le 5, 16 \le n \le 19, 21 \le n \le 31, 33 \le n \le 41, n=255$

Default: For model not supporting Thai character: n=0

For model supporting Thai character support : n = 20

Description: This command specifies code page according to the value of n as follows:

n	Code page		
0	Page 0	437 (USA, Standard Europe)	
1	Page 1	Katakana	
2	Page 2	850 (Multilingual)	
3	Page 3	860 (Portuguese)	
4	Page 4	863 (Canadian-French)	
5	Page 5	865 (Nordic)	
16	Page 16	1252 (Latin I)	
17	Page 17	866 (Cyrillic #2)	
18	Page 18	852 (Latin 2)	
19	Page 19	858 (Euro)	
21	Page 21	862 (Hebrew DOS code)	
22	Page 22	864 (Arabic)	
23	Page 23	Thai42	
24	Page 24	1253 (Greek)	
25	Page 25	1254 (Turkish)	

n	Code page
26	Page 26 1257 (Baltic)
27	Page 27 Farsi
28	Page 28 1251 (Cyrillic)
29	Page 29 737 (Greek)
30	Page 30 775 (Baltic)
31	Page 31 Thai14
33	Page 33 1255 (Hebrew New code)
34	Page 34 Thai 11
35	Page 35 Thai 18
36	Page 36 855 (Cyrillic)
37	Page 37 857 (Turkish)
38	Page 38 928 (Greek)
39	Page 39 Thai 16
40	Page 40 1256 (Arabic)
41	Page 41 1258 (Vietnam)
255	User Code Page (Space)

Remarks: ■ The setting of this command remains effective until ESC !, ESC @, printer reset or power cycling is executed.

Differences: ■ Code pages not supported:

- n = 36, 39, 40
- When n=255, the code page specified by the memory switch is enabled.

ESC u

Function: Transmit peripheral device status

Code:

ASCII	ESC	u	n
Hex 1B		75	n
Decimal	27	117	n

Range: n = 0, 48

Default: None

Description: This command transmits a byte of data with the least significant bit(LSB) specifying the peripheral device status as

follows:

LSB	Status of drawer kick-out connector pin 3
0	Low
1	High

Remarks: ■ The peripheral device status can be transmitted using GS r.

ESC v

Function: Transmit paper sensor status

Code:

ASCII	ESC	V
Hex	1B	76
Decimal	27	118

Range: None

Default: None

Description: This command transmits a byte of data specifying the paper sensor status.

■ The status of paper near end and paper end sensors is sent to the host as follows:

• When paper near end is detected, 0x03 is transmitted.

• When paper end is detected, 0xC is transmitted.

Remarks: The paper sensor status can be transmitted using GS r.

■ The near end senor is optional while paper end sensor required.

■ If the printer is not equipped with a near end sensor, the paper near end sensor is considered as normal condition.

ESC {

Function: Turns upside-down printing mode on/off

Code:

ASCII ESC		{	n
Hex	1B	7B	n
Decimal	27	123	n

Range: $0 \le n \le 255$

Default: n=0

Description:

This command selects/deselects upside-down printing mode according to the least significant bit as follows.

LSB	Upside-down mode
0	Turned off
1	Turned on

Remarks:

- This command is valid only when entered at the beginning of the line.
- The upside-down print mode has no effect in page mode. If this command is processed in page mode, upside-down printing mode is enabled when the printer returns to standard mode.
- 180 rotated characters are printed from right to left in upside-down print mode.
- The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

	· · · · · · · · · · · · · · · · · · ·			
Example				
Normal	Upside- down Mode			
ABCDEF	ABCDEF			

FS!

Function: Set print mode for Kanji characters

Code:

ASCII	FS	!	n
Hex	1C	21	n
Decimal	28	33	n

Range: $0 \le n \le 255$

Default: n=0

Description:

This command signifies the print modes such as double-width mode, double-height mode, and underline mode for Kanji characters as follows:

Bit	Binary	Hex	Decimal	Status
0	Off	00	0	Reserved
1	Off	00	0	Reserved
2	Off	00	0	Double-width mode is Off
On		04	4	Double-width mode is On
3	Off	00	0	Double-height mode is Off
3	On	08	8	Double-height mode is On
4-6	Off	00	0	Reserved
7	Off	00	0	Kanji underline mode is Off
'	On	80	128	Kanji underline mode is Off

Remarks:

- Kanji underline mode can be set using FS -.
- Double-width and height modes can be set using GS!.
- In Kanji underline mode, the underline printing is not performed under 90°clockwise rotated characters, white/black reverse characters, and spaces skipped by HT, ESC \$, or ESC \.
- The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

FS &

Function: Select Kanji character mode

Code:

ASCII	FS	&
Hex	1C	26
Decimal	28	38

Range: None

Default: None

Description: This command sets Kanji character mode.

Remarks: This command is available only for the Japanese, Chinese, and Korean models.

■ Kanji codes are comprised of 2 bytes and processed in order of the first and second byte.

■ The setting of this command remains effective until ESC!, ESC @, printer reset, power cycling or FS is executed.

FS -

Function: Turn underline mode on/off for Kanji characters

Code:

ASCII	FS	-	n
Hex	1C	2D	n
Decimal	28	45	n

Range: $0 \le n \le 1, 48 \le d \le 49$

Default: n=0

Description:

This command select/deselects underline mode for Kanji characters, based on the following values of n:

n	Underline mode for Kanji characters
0, 48	Turned off
1, 49	Turned on

Remarks: ■ Ka

- Kanji underline mode can be set using FS!.
- The settings of this command are valid only for Kanji characters.
- The setting of this command remains effective until ESC!, ESC @, printer reset, or power cycling is executed.

FS.

Function: Cancel Kanji character mode

Code:

ASCII	FS	
Hex	1C	2E
Decimal	28	46

Range: None

Default: None

Description: This command cancels Kanji character mode.

Remarks: This command is available only for the Japanese, Chinese, and Korean models.

■ Kanji character mode is enabled using FS &.

■ Once Kanji character mode is canceled, the printer processes a character code as 1-byte code of alphanumeric characters.

■ The setting of this command remains effective until ESC!, ESC @, printer reset, or power cycling is executed.

FS 2

Function: Specify user-defined Kanji characters

Code:

ASCII	FS	2	c1	c2	d1dk
Hex	1C	32	c1	c2	d1dk
Decimal	28	50	c1	c2	d1dk

Range: $c1 = FEH, A1H \le c2 \le FEH$

 $0 \le d \le 255$ k = 32

Default: None

Description: This command defines user-defined Kanji characters for the character codes specified by c1 and c2.

• c1 and c2 denote the first and second byte of a character code respectively for a user-defined character.

• d indicates 1 byte of defined data.

• k indicates the maximum number of defined data.

Remarks: The bits of defined data (d) include 1 to print a dot or 0 not to print a dot.

■ Defined data remains effective until ESC!, ESC @, printer reset, or power cycling is executed.

■ In case user-defined characters are not defined, space is printed at the default.

■ The relationship between the defined data and a print result is as follows. (2 bytes in vertical × 16 dots in horizontal) is necessary.

d1	d3	d5		d27	d29	d31	MSB LSB
d2	d4	d6	:	d28	d30	d32	MSB LSB

FS p

Function: Print NV bit image

Code:

ASCII	FS	р	n	m
Hex	1C	70	n	m
Decimal	28	112	n	m

Range: $1 \le n \le 255$

 $0 \le m \le 3, 48 \le m \le 51$

Default: None

Description: This command prints NV bit image n using the mode specified by m as follows:

m	Mode
0, 48	Normal
1, 49	Double-width
2, 50	Double-height
3, 51	Quadruple

Remarks:

- BS ^ L and BS ^ 7 can be used for printing NV bit image.
- The NV bit image is defined by FS q.
- n is assigned to each NV bit image to be stored in download order by FS q.
- This command has no effect with NV bit image not defined in advance.
- In page mode, the NV bit image is saved without being printed.
- The printer does not print the NV bit image that is beyond one line of print area.
- When using unidirectional print mode, there will be no vertical misali gnment between the top and bottom parts of the printed pattern.

Differences:

DPI: Dots per Inch (25.4mm)

Mode	Vertical Dot Density (DPI)	Horizontal Dot Density (DPI)
Normal	72	160
Double-width	72	80
Double-height	N	/A
Quadruple	N	I/A

FS q

Function: Define NV bit image

Code:

ASCII	FS	q	n	[xL xH yL yH d1dk]1[xL xH y	yL yH d1dk]n
Hex	1C	71	n	[xL xH yL yH d1dk]1[xL xH y	yL yH d1dk]n
Decimal	28	113	n	[xL xH yL yH d1dk]1[xL xH y	yL yH d1dk]n

Range: $1 \le n \le 255$

 $1 \le (xL + xH \times 256) \le 1023 \ (0 \le xL \le 255, \ 0 \le xH \le 3)$

 $1 \le (yL + yH \times 256) \le 288 (0 \le yL \le 255, yH = 0,1)$

 $0 \le d \le 255$

 $k = (xL + xH \times 256) \times (yL + yH \times 256) \times 8$

Default: None

Description: This command defines the NV bit image in the NV memory.

• n denotes the number of the NV being defined.

• (xL, xH) and (yL, yH) set the number of dots in the horizontal and vertical directions to [(xL + xH \times 256) x 8] and [(yL + yH \times 256) x 8] respectively for the NV bit image.

Remarks: BS ^ L and BS ^ 7 can be used for defining NV bit image.

■ When this command is entered, all NV bit images previously defined are removed from the NV memory.

■ After completion of this command, the printer executes a software reset to restore the settings as when turned on.

■ The NV bit image is printed by FS p.

■ During the execution of this command, paper feed button, ASB and real time functions will not operate.

■ Bit image data and print result ws:

			MSB
d1	dY+1		LSB
-10	-174 - 0	-11- 0	MSB
d2	dY+2	 dk-2	LSB
		مااد ۱	MSB
		 dk-1	LSB
dY	dY x 2	dk	MSB
ut	uixZ	 uk	LSB

Differences: ■ The capacity of NV memory available is 256KB.

FS S

Function: Set Kanji character spacing

Code:

ASCII	FS	S	n1	n2
Hex	1C	53	n1	n2
Decimal	28	83	n1	n2

Range: $0 \le n1 \le 32, 0 \le n2 \le 32$

Default: n1 = 0, n2 = 0

Description: This command sets left- and right-side spacing for Kanji characters, n1 and n2 respectively.

• Left-side character spacing is [n1×horizontal unit].

• Right-side character spacing is [n2×horizontal unit].

Remarks: In a double width mode, the right space will be doubled.

■ The character spacing can be set independently for standard and page modes.

■ The setting of this command remains effective until ESC!, ESC @, printer reset or power cycling is executed.

FS W

Function: Turn quadruple-size mode on/off for Kanji characters

Code:

ASCII	FS	W	n
Hex	1C	57	n
Decimal	28	87	n

Range: $0 \le n \le 1$

Default: n = 0

Description: This command turns quadruple-size mode on or off for Kanji characters, using a least significant bit of n as follows:

n	Quadruple-size mode
0	Turned off
1	Turned on

Remarks: FS! or GS! can be used to generate the quadruple-size Kanji characters.

■ The setting of this command remains effective until ESC @, printer reset or power cycling is executed.

FS (L

Function: Feeds paper to the cutting position

Code:

ASCII	FS	(L	pL	рН	fn	m
Hex	1C	28	4C	02	00	42	m
Decimal	28	40	76	2	0	66	m

Range: $(pL + pH \times 256) = 2 (pL = 2, pH = 0)$

fn = 66 m = 48, 49

Default: None

Description: Feeds paper to the cutting position.

m	Function
48	Fees paper to the next cutting position.
40	This command is ignored if the current position is located on the cutting position.
	Feeds paper to the next cutting position.
49	 Feeds paper to the next cutting position if the current position is located on the cutting position.

• Feeds paper forward only (Does not feed paper backward).

Remarks:

FS?

Function: Cancel user-defined Kanji characters

Code:

ASCII	FS	?	c1	c2
Hex	1C	3F	c1	c2
Decimal	28	63	c1	c2

Range: $c1 = FEH, A1H \le c2 \le FEH$

Default: None

Description: This command cancels user-defined Kanji characters for the character codes specified by c1 and c2.

• c1 and c2 specify the first and second byte of a character code for a user-defined Kanji character respectively.

Remarks: This command is effective only for Chinese model.

■ A space is printed for the user-defined Kanji character canceled.

GS (A

Function: Execute test print

Code:

ASCII	GS	(Α	pL	рН	n	m
Hex	1D	28	41	рL	рН	n	m
Decimal	29	40	65	pL	рН	n	m

Range: $(pL + pH \times 256) = 2 (pL=2, pH=0)$

 $0 \le n \le 2, 48 \le n \le 50$ $1 \le m \le 3, 49 \le m \le 51$

Default: None

Description:

■ This command prints a specified pattern for testing on a roll paper.

• Roll paper is selected with n specified as follows:

n	Paper type
0, 48	
1, 49	Roll paper
2, 50	

• Different kinds of test patterns are selected according to m as follows:

m	Test pattern
1, 49	Hexadecimal dump mode
2, 50	Printer configuration printing
3, 51	Rolling pattern printing

Remarks:

- The printer cancels a macro definition in progress If this command is processed. The macro becomes invalid.
- After completion of this command, a software reset is executed automatically to restore the printer status set during power cycling.
- All of the data transmitted from the host to the printer is printed and identified in hexadecimal dump mode.
- The real time command and ASB operations are not executed during the printing of printer configuration (m=2, 50) and rolling pattern (m=3, 51).

GS I

Function: Transmits printer ID

Code:

ASCII	GS	I	n
Hex	1D	49	n
Decimal	29	73	n

Range: $1 \le n \le 69$

Default: None

Description:

■ This command transmits the printer ID or information.

• Transmits 1 byte of printer ID, using n as follows:

n	Printer ID	Specification
1,49	Printer model ID	Printer model
2,50	Type ID	Printer type
3,51	Printer feature ID	Printing method and Printer size

• Transmits specified printer information, using n as follows:

n	Printer ID type	Specification
65	Firmware version	Firmware version
66	Manufacturer	BIXOLON
67	Printer model	Printer model
69	Code page	Currently enabled code page

Remarks:

■ Printer information (When n = 65, 66, 67, 69) consist of [Header ~ NULL] data as shown below:

Transmitted data	Hex	Decimal	Amount of data
Header	5FH	95	1byte
Printer information	Depends on the model	Depends on the model	0-15 bytes
NUL	00H	0	1byte

- The firmware version can be confirmed by self test printing.
- This command can be executed in real-time command mode using DLE.

Differences:

■ The printer ID is shown according to printer models as follows:

Printer ID	SRP-275II					
1(Printer model ID)	0x0d					
	Type ID varies depending on functions the printer supports as follows:					
	- 0x01 (Multi-byte character)					
	- 0x02 (Autocutter)					
2(Type ID)	- 0x03 (Autocutter + Multi-byte character)					
	- 0x04 (Customer display)					
	- 0x05 (Multi-byte character + Display)					
	- 0x07 (Customer display + Autocutter + Multi-byte Character)					
3(Printer feature ID)	0x64					
66(Manufacturer) BIXOLON						
67(Printer model)	SRP-275II					
69(Language of Font)						

GS V

Function: Select cut mode and cut paper

Code:

1	ASCII	GS	V	m	
	Hex	1D	56	m	
	Decimal	29	86	m	
	ASCII	GS	V	m	n
2	Hex	1D	56	m	n
	Decimal	29	86	m	n

Range: ① m=0, 1, 48, 49 ② $m=65, 66, 0 \le n \le 255$

Default: None

Description: This command cuts paper in the specified mode as follows.

m		Function
1	0,48	Executes a full cut (cuts the paper completely)
	1,49	Executes a partial cut (one point left uncut)
2	65	Feeds paper to (cutting position + n × vertical motion unit) and executes a partial cut(one point left uncut)
	66	Feeds paper to (cutting position + n × vertical motion unit) and executes a partial cut(one point left uncut)

Remarks: For ①

■ If an auto cutter is not provided, this command is ignored command is executed.

For ②

- When n = 0, the printer feeds the paper to the cutting position and cuts it.
- If an auto cutter is not provided, the printer only feeds the paper for specified amount.
- Vertical motion unit is used for calculating a paper feed amount.

Differences: ■ Cutting mode is changed only by setting MSW2-2.

GS a

Function: Enable/Disable Automatic Status Back (ASB)

Code:

ASCII	GS	а	n
Hex	1D	61	n
Decimal	29	97	n

Range: $0 \le n \le 255$

Default: n=0

Description: This enables or disables ASB (Automatic Status Back) according to n.

• ASB is enabled when n > 0.

Remarks:

- ASB is the function that transmit the printer status such as cover open/close and Online/Offline] continuously at the time interval specified regardless of the status change if ASB is enabled. Using this ASB function, the host can check to see if the printer is running properly.
- Once ASB has been enabled, the printer continues to transmit the current printer status at the specified interval until ASB is disabled.
- When n = 0, ASB is disabled. The printer stops transmitting the status.
- With parallel and USB interface, the printer status is transmitted whenever the host computer changes to the reverse mode regardless of the printer status change. It is recommended that the periodic time interval at which the host changes to reverse mode is more than 500ms in order to receive the correct status.
- With serial interface, ASB status is transmitted continuously at the interval of 1 sec even if the status is not changed.
- The setting of this command remains effective until ESC @, printer reset or power cycling is executed.

- The printer information transmitted is comprised of 4 bytes as follows:
 - First byte(printer information)

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off
1	Off	00	0	Not used. Fixed to Off
2	Off	00	0	Drawer kick-out connector pin 3 is LOW
	On	04	4	Drawer kick-out connector pin 3 is HIGH
2	Off	00	0	On-line On-line
3	On	08	8	Off-line Off-line
4	On	10	16	Not used. Fixed to On
5	Off	00	0	Cover is close
5	On	20	32	Cover is open
6	Off	00	0	Paper is not being fed by the paper feed button
0	On	40	64	Paper is being fed by the paper feed butto
7	Off	00	0	Not used. Fixed to Off

Second byte(printer information)

Bit	Off/On	Hex	Decimal	Function	
0	Off	00	0	Not used. Fixed to Off	
1	Off	00	0	Not used. Fixed to Off	
2	Off	00	0	No mechanical error	
	On	04	4	Mechanical error	
3	Off	00	0	No auto cutter error	
3	On	08	8	Auto cutter error occurred	
4	Off	00	0	Not used. Fixed to Off	
5	Off	00	0	No unrecoverable error	
5	On	20	32	Unrecoverable error	
6	Off	00	0	No automatically recoverable error	
O	On	40	64	Automatically recoverable error occurred	
7	Off	00	00 0 Not used. Fixed to Off		

⁻ If an unrecoverable error (bit 5) occurs, turn off the power as soon as possible.

• Third byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Function
0,1	Off	00	0	Paper near end sensor: paper adequate
0, 1	On	03	3	Paper near end sensor: paper near end
2.2	Off	00	0	Paper end sensor: paper present
2,3	On	0C	12	Paper end sensor: no paper present
4	Off	00	0	Not used. Fixed to Off
5	Off	00	0	Not used. Fixed to Off
6	Off	00	0	Not used. Fixed to Off
7	Off	00	0	Not used. Fixed to Off

• Fourth byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Function
0	On	01	1	Not used. Fixed to On
1	On	02	2	Not used. Fixed to On
2	On	04	4	Not used. Fixed to On
3	On	08	8	Not used. Fixed to On
4	Off	00	0	Not used. Fixed to Off
5	Off	00	0	Not used. Fixed to Off
6	Off	00	0	Not used. Fixed to Off
7	Off	00	0	Not used. Fixed to Off

GS r

Function: Transmit status

Code:

ASCII	GS	r	n
Hex	1D	72	n
Decimal	29	114	n

Range: n=1, 2, 49, 50

Default: None

Description:

The command transmits the status specified by n as follows:

	n	Function				
	1, 49	Transmits paper sensor status				
Ī	2, 50	Transmits drawer kick-out connector status				

Remarks:

- The status is one byte.
- The status to be transmitted is as follows:
 - Paper sensor status (n=1, 49):

Bit	Off/On	Hex	Decimal	Function
0 1	Off	00	0	Paper near-end sensor: Paper adequate
0, 1	On	03	3	Paper near-end sensor: Paper near end
2.2	Off	00	0	Paper end sensor: Paper present
2, 3	On	0C	12	Paper end sensor: Paper not present
4	Off	00	0	Fixed
5	Off	00	0	Reserved
6	Off	00	0	Reserved
7	Off	00	0	Fixed

Bits 2 and 3: This command can not be executed when the printer is offline due to the lack of paper. Therefore, the status of bit 2 (1) and bit 3 (1) is not transmitted.

• Drawer kick-out connector status (n=2, 50):

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Drawer kick-out connector pin 3 is LOW
0	On	01	1	Drawer kick-out connector pin 3 is HIGH
1	Off	00	0	Reserved
2	Off	00	0	Reserved
3	Off	00	0	Reserved
4	Off	00	0	Fixed
5	Off	00	0	Reserved
6	Off	00	0	Reserved
7	Off	00	0	Fixed

■ This command can be executed in real-time mode using DLE.