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User manual OKI OKIPOS 425S
User guide OKI OKIPOS 425S
Operating instructions OKI OKIPOS 425S
Instructions for use OKI OKIPOS 425S
Instruction manual OKI OKIPOS 425S

OKI

OKIPOS 425S/D

(OKI Standard Version)

POS-PRINTER

Product Specifications

(Software edition)

2001-05-10 Rev.3

41049421PS Rev.3

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· With the Parallel model (Centronics I/F), the Busy signal becomes High at Off-line. · With the Serial model (RS232C I/F), the following Busy control is performed at Off-line. If handshake is DTR/DSR, the DTR signal will change to MARK. If handshake is XON/XOFF, DC3 will be sent. 41049421PS Rev.3 7/2. OPERATOR CONTROL This specification document describes the details of the operator panel and the local functions that are realized by the firmware.

2.1 Operator Panel Functions This chapter describes the operator panel functions. 2.1.1 Operator Panel Specifications (Operator Panel layout) POWER LED LED1 LED2 LED3 LED4 SW2 SW3 SW1 SW4 * The SW names in the above layout are tentative. They have been assigned to make their explanations easy. <Panel sheet design> 41049421PS Rev.3 8/ (Switch functions) No. 1 Switch SW2 (FF/LOAD/ PARK) Function in Modes other than Tractor Mode Function in Tractor Mode In Receipt mode: Line-feeds receipts for a Paper not loaded: Auto Load fixed amount (10/6") Paper already loaded: Auto Park In Receipt+Journal mode: Same as above. * When No Paper is sensed by Slip In Journal mode: Invalid. Sensor, Auto Park is invalid. In Slip mode: Ejects when paper is already set. In Validation mode: Invalid * Does not cause printing to start. Auto Cut (partial cut) Note 1) Cut position: Reverse-feeds to print * Valid regardless of print sheet mode or position. print sheet status. Print position: Feeds to cut position. Paper not loaded: Above does not occur when pressed. In Slip mode: Line-feeds the slip already set by 1-line . In Receipt mode: Line-feeds a journal by 1 line. Note 2) In Validation mode: Invalid. In Journal mode: Line-feeds a journal by 1line. In Receipt+Journal mode: Line-feeds a journal by 1-line. * None of the above cause printing to start. Single Press: Feeds Sprocket paper by 1-line. Continuous Press: Form-feeds. * Line-feeds 1-line immediately after the SW is pressed. Formfeeds after the SW is held down continuously at least for 500ms. * Does not cause printing to start. 2 SW3 (CUT) 3 SW1 (LF) 4 SW4 (RECEIPT LF) Line-feeds a receipt by 1-line. * Valid regardless of the print sheet mode or print sheet status.

Note 1) Invalid when "Auto Cutter Unit = No" is set in the menu. In the 1-Roll Model, Auto Cut function is invalid since this model does not have the auto cutter unit. Note 2) In the 1-Roll Model, a receipt is line-fed by 1-line. * When panel SW is set to invalid by Panel SW enable/disable command (ESC c5), the SW is invalid. * During the time between MICR read start and check paper eject, SW is invalid. 41049421PS Rev.3 9/ (LED display) No. 1 2 LED POWER LED1 (ERROR) ON Green Powered on Red OFF Powered off BLINK Recoverable alarms Normal state · Slip Load/Eject Alarm · Auto loading Alarm · Auto parking Alarm · Media Does Not Match Alarm (1) · Media Does Not Match Alarm (2) · Cover Open Alarm Note 1) Paper loaded (ready for print) state · Fatal alarms (Alarm type is differentiated by the number of times the light blinks) * Refer to the table on next page. · SP thermal alarm (Blinks simultaneously with LED2.) · LF thermal alarm · Waiting for removal · SP thermal alarm (Blinks simultaneously with LED1.

) Validation mode MICR mode * Fast blinking * Slow blinking Receipt mode * Fast blinking Journal mode * Slow blinking 3 LED2 Orange Paper not loaded (wait(STATUS) ing for paper to be loaded) state 4 LED3/ Orange Slip Mode Tractor Mode LED4 (MODE) Green Receipt+Journal Mode Roll Paper Mode (1-Roll Model) Note 1) When "Cover Open Alarm" is set to No in Menu, Cover Open Alarm does not happen (Printing does not stop.) * Media Does Not Match Alarm (1) is detected by monitoring the lever of the option tractor. Media Does Not Match Alarm (2) is detected by the Validation sensor monitoring (media manually inserted to the validation opening). 41049421PS Rev.3 10/ (Timing charts for LED1 and LED2 display for Waiting for removal and SP/LF thermal alarm state and LED3 display for Validation mode and Receipt mode.

) LED T1 T2 T1=T2=500msec (LED3 display timing chart for MICR mode and Journal mode) LED T1=T2=1sec T1 T2 (Number of times LED1 blinks when fatal alarms have occurred) Number of times 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Fatal alarm Program ROM EEPROM Internal RAM External RAM Homing Spacing Auto Cutter Platen Switch Head A/D Error WDT (F/W Control) NMI (F/W Control) BRK command (F/W Control) MICR Unit Error I/F board (LED1 display timing chart when a fatal alarm has occurred) LED1 T1 T2 T3 1cycle T1=T2=250msec T3=1500msec 41049421PS Rev.3 11 / 2.2 LOCAL FUNCTIONS The local and maintenance functions are described next. 2.2.

1 Kinds of Local Functions and How to Start (1) Kinds Local functions Local tests All Letter and Rolling ASCII Continuous Print Test (Receipt) All Letter and Rolling ASCII Continuous Print Test (Journal) All Letter and Rolling ASCII Continuous Print Test (Receipt + Journal) All Letter and Rolling ASCII Continuous Print Test (Slip/Sprocket) Sample Data Continuous Print Test (Validation) MICR Read Test (Receipt) Rewinder Rewind Evaluation Continuous Print Test (Journal) Menu (Receipt) HEX Dump (Receipt) Platen Maintenance Mode (2) NO. 1 2 3 4 5 6 7 8 9 How to start Local Functions All Letter & Rolling ASCII Continuous Print Test (Receipt) All Letter & Rolling ASCII Continuous Print Test (Journal) All Letter & Rolling ASCII Continuous Print Test (Receipt+Journal) All Letter & Rolling ASCII Continuous Print Test (Slip)/(Sprocket) Sample Data Continuous Print Test (Validation) Menu (Receipt) HEX Dump (Receipt) MICR Read Test (Receipt) Platen Maintenance Mode SW 2 SW 3 SW 1 SW 4 10 Rewinder Rewind Evaluation Continuous Print Test (Journal) Note 1 To enter the above modes, turn the power on while holding down the switches marked with a circle (). Note 2 In No.4, if the lever is on the tractor side, the Sprocket Print Test becomes effective. If the lever is not on the tractor side, the Slip Print Test becomes effective. Note 3 In Nos. 5, 8 and 10, if the lever is on the tractor side, these local functions become invalid, and the printer starts in normal mode. Nos.1 ~ 3, 6, 7 and 9 become effective regardless of the lever state. Note 4 In Nos.

1~ 3, the print widths will be those set in the menu "Width of Roll Paper". Note 5 In Nos.1 ~ 4 and 10, if SW1 is pressed, printing suspends. When the SW1 is pressed again, the printing resumes. Note 6 In No.1 ~ 5, 8 and 10, if the cover is opened, printing suspends. When the cover is closed, printing resumes. (This is limited to only with the setting of Menu "Cover Open Alarm = YES", suspend in the cases of No.6 and 7.) Note 7 In each local function, if the tractor lever is switched, Media Does Not Match Alarm (1) will result.

When the tractor is returned to the original position, the alarm is cleared and test printing resumes.



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41049421PS Rev.3 12 / 2.3 LOCAL TEST This function creates test data internally as if the printer received the data from the host, and prints the test pattern.
2.

3.1 Printer Status in Local Test Mode When the local test begins, the printer cannot receive data (*1). Even when a recoverable alarm occurs, the test mode is not cleared, and the test print resumes when the alarm element is cleared. The condition to end the local test is to turn the power off, but the local test is terminated when I- PRIME signal (Parallel model) /Reset signal (Serial model) is received or a fatal alarm occurs. (*1) When the printer cannot receive data, each I/F presents Busy as follows.

* Parallel model (Centronics interface): Busy signal High * Serial model (RS232C I/F): Busy control as follows. When handshake is DTR/DSR: DTR signal MARK status When handshake is XON/XOFF: Sends DC3 2.3.2 2.3.2.1 Details of Local Test Prints All Letter and Rolling ASCII Continuous Print Test (Receipt) This function performs All Letter Print and Rolling ASCII Continuous Print in Receive mode. It can test Auto Cutter Unit as well, and executes Auto Cut operations. It executes Auto Cut operation only when "Auto Cutter Unit = Yes" is sent in the menu, however. * In case of I-Roll Model, since this model does not come with Auto Cutter Unit, the Auto Cut function is invalid.

(1) How to start Turn the power on while holding down the SW1. (2) How to exit this mode Turn the power off. * During test printing, if you press SW1, printing suspends. If you press the SW1 again, printing resumes. (3) Printed contents and operations (a) Auto Cut (Full Cut) operation (b) Horizontal line (bit image print) printing (c) Pattern (" ") printing to check breakage of the head pins (d) Local test header printing (e) UTL and HSD characters (20H~FFH) All Letter Print (f) Auto Cut (Partial Cut) operation (g) UTL characters (20H~7EH) Rolling ASCII Continuous Print 41049421PS Rev.3 13 / 2.3.2.2 All Letter and Rolling ASCII Continuous Print Test (Journal) This function performs All Letter Print and Rolling ASCII Continuous Print in Journal mode. * In case of I-Roll Model, this function is invalid.

(1) How to start Turn the power on while holding down the SW4. (2) How to exit this mode Turn the power off. * During test printing, if you press SW1, printing suspends. If you press the SW1 again, printing resumes. (3) Printed contents (a) Horizontal lines (bit image print) printing (b) Pattern (" ") printing to check breakage of the head pins (c) Local test header printing (d) UTL and HSD characters (20H~FFH) All Letter Print (e) UTL characters (20H~7EH) Rolling ASCII Continuous Print 2.

3.2.3 All Letter and Rolling ASCII Continuous Print Test (Receipt + Journal) This function performs All Letter Print and Rolling ASCII Continuous Print in the Receipt+Journal mode. Prints the same data on both receipt and journal. This function can test the auto cutter unit as well, and executes Auto Cut operation of receipts only when "Auto Cutter Unit = Yes" is set in the menu, however.

* In case of I-Roll Model, this function is invalid. (1) How to start Turn the power on while holding down SW1 + SW4. (2) How to exit this mode Turn the power off. * During test printing, if you press SW1, printing suspends. If you press the SW1 again, printing resumes. (3) Print contents and operations (a) Auto Cut (Full Cut) operation (b) Horizontal line (bit image print) printing (c) Pattern (" ") printing to check breakage of the head pins (d) Local test header printing (e) UTL and HSD characters (20H~FFH) All Letter Print (f) Auto Cut (Partial Cut) operation (g) UTL characters (20H~7EH) Rolling ASCII Continuous Print 41049421PS Rev.3 14 / 2.3.2.4 All Letter and Rolling ASCII Continuous Print Test (Slip/Sprocket) This function performs Rolling ASCII Continuous Print after All Letter Print.

(1) How to start Turn the power on while holding down the SW2. If the lever is on the tractor side, the Sprocket paper print test takes place. Otherwise, Slip paper print test takes place. (2) How to exit Turn the power off. * During test printing, if you press SW1, printing suspends. If you press the SW1 again, printing resumes. (3) Print contents (a) Horizontal line (bit image print) printing (b) Pattern (" ") printing to check breakage of the head pins (c) Local test header printing (d) UTL and HSD characters (20H~FFH) All Letter Print (e) UTL and HSD characters (20H~FFH) All Letter Print in Compressed Mode. (f) UTL characters (20H~7EH) Rolling ASCII Continuous Print 2.3.2.

5 Sample Data Continuous Print Test (Validation) This function performs the test print on the Validation paper. (1) How to start Turn the power on while holding down the SW3. (2) How to exit Turn the power off. (3) Print contents (a) UTL character (20H~86H) printing (prints only one-line) * Prints one-line when Validation is inserted, then enters Waiting for Removal state. After the validation is removed, the printer enters the Waiting for Insertion state. Repeat the sequence : Set paper Print Remove. 41049421PS Rev.3 15 / 2.3.2.

6 MICR Read Test (Receipt) This function performs MICR read and prints that result on the receipt paper. Effective only when the MICR unit is installed and "MICR Unit = Yes(CMC-7)" or "MICR Unit = Yes(E13B)" is set in the menu. (1) How to start Turn the power on while holding down SW2 + SW3. (2) How to exit Turn the power off. (3) Contents of the test (a) When this mode is started, the printer enters Wait for MICR Insertion state. (b) Insert MICR card and perform MICR read. (c) The printer prints MICR read results on the Receipt paper, and enters Wait for MICR Insertion state. (b) and (c) above are repeated. (4) Contents printed <When Read is OK:> (a) Prints "Read OK". (b) Prints the MICR read results in HEX dump.

("XX XX XX" + ASCII: 1 line contains 8 byte information) <When Read is NG:> (a) Prints "Read NG". (b) Prints the MICR read results (Return Code (1 byte) and read data) in HEX dump. ("XX XX ..

.... XX" + ASCII: 1 line contains 8 byte information) * Regarding MICR Read result, Return Code (1 byte) and Read Data are printed.

When the Return Code is 30H ("No errors"), it is assumed as "Read OK" Otherwise, it is assumed as "Read NG" * Return codes are shown below: Return code 30H (0) 33H (3) 34H (4) 36H (6) Status No errors. Error: Read/Decode error. Error: No magnetic ink detected. Error: Document jam or document is too long. 41049421PS Rev.

3 16 / * When character set is CMC-7, the below codes are returned. A: B: C: D: E: dash symbol amount symbol transit symbol On-U's symbol comma symbol Character Code 31H 35H 39H 42H Character Code 32H 36H 30H 43H Character Code 33H 37H 20H 44H Character Code 34H 38H 41H 45H 1 5 9 B 2 6 0 C 3 7 (space) D 4 8 A E * Unknown:3FH(?) * When character set is E-13B, the below codes are returned.



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A: dash symbol B: amount symbol C: transit symbol D: On-Us symbol Character Code 31H 35H 39H 41H Character Code 32H 36H 30H 42H Character Code 33H 37H 20H 43H Character Code 34H 38H 44H 1 5 9 A 2 6 0 B 3 7 (space) C 4 8 D * Unknown:3FH(?) (Note) In both cases of CMC-7 and E-13B, special character codes are different from those sent to host by a check paper read command. 2.3.2.7 Rewinder Winding Evaluation Continuous Print Test (Journal) This function performs print/platen switch continuous test to evaluate the rewinder winding performance. * In case of 1-Roll Model, this function will be in Roll Paper mode. (1) How to start Turn the power on while holding down SW3 + SW1 + SW4. (2) How to exit Turn the power off.

* During test printing, if you press the SW1, printing suspends. If you press the SW1 again, printing resumes. (3) Contents printed (a) Prints "HHH"+ Space + "HHH" (UTL characters) (b) Print Sheet Mode switching (Journal Slip Journal) 41049421PS Rev.3 17 / 2.3.3 Local Test Header Prints Model Name, Design Drawing Number, Version and F/W Revision. OKIPOS 425D 41783801YR VER 01 F/W REV 01.00 *1 *1 1-Roll model: OKIPOS 425S 41783701YR 2-Roll model: OKIPOS 425D 41783801YR The device names are not finalized yet. The above names are tentative. 41049421PS Rev. 3 18 / 2.4 MENU FUNCTION (Receipt) 2.4.1 Overview The menu function is the local function that sets each mode to control the printer and adjusts it. This mode has the following items, saved in the E2P-ROM.

This information is printed only when the menu mode is activated at Power On, and the information can be written over from the operator panel. Menu Print is printed in Receipt Mode. For the printer's initialization state, each mode is set according to the information of this area. 2.4.

2 Menu Items (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) Auto Cutter Unit MICR Unit Print Registration Top Adjust Cut Adjust Auto LF (Auto line feed) Receive Buffer Size Print Mode Off-line Busy Control Cover Open Alarm Width of Roll Paper Zero Character Page Lengths Page End Signal 41049421PS Rev.3 19 / Default Value NO. 1 Item Auto Cutter Unit Function Selects Auto Cutter Unit Installed/Not Installed. Selects MICR Unit Installed/Not Installed. Adjusts the print position if it shifts in Forward printing and Reverse printing. Sets Yes No *Default of 1-Roll Model is No. Yes(CMC-7) Yes(E-13B) No 0.25mm Right 0.20mm Right 0.15mm Right 0.

10mm Right 0.05mm Right 0 0.05mm Left 0.10mm Left 0.15mm Left 0.20mm Left 0.25mm Left -1.75mm ~ +1.75mm * Can be set in the 0.35mm unit. * Default value : 0 mm -1.75mm ~ +1.75mm * Can be set in the 0.35mm unit. * Default value : 0 mm Yes No 2K 16K Utility HSD Yes * Off-line or Receive buffer-full No * Receive buffer-full Yes No 76.

2mm 69.5mm Slashed Unslashed 88.9mm 139.7mm 215.9mm 279.

4mm 304.8mm Yes (RNE or RE) Yes (RE) No 2 MICR Unit 3 Print Registration 4 Top Adjust Adjusts Top Of Form position when Slip/Sprocket are used. Adjusts Cut Position when cutting Sprocket paper. Selects auto line feed. (Selects auto line feed by CR Code) 5 Cut Adjust 6 7 8 9 Auto LF (Auto line feed) Receive Buffer Size Selects Receive Buffer Size Print Mode Off-line Busy Control Cover Open Alarm Selects font Selects conditions of BUSY 10 11 12 13 Selects enable/disable of print stop in Cover Open Width of Roll Paper Selects the paper width of Roll paper (Changes the print area.) Zero Character Page Length Selects a zero font Selects the paper length of Sprocket paper. 14 Paper End Signal Selects the paper sensor that enables Paper End signal. * RNE : Receipt/Journal Near End Sensor * RE : Receipt/Journal End Sensor Note 1) In the 1-Roll Model, an auto cutter unit cannot be installed. Note 2) I/F control information (baud rate and etc.) and customer display connection/disconnection of serial model are set by DIP-SW of the I/F board.

Note 3) MICR Unit selection has the following two types for MICR Read test (Refer to Section 2.3.2.6.): "Yes (CMC-7)," and "Yes (E-13B)" Normally, either selection is recognized as an actual installation status of MICR Unit, and MICR type is selected by designation of the command. 41049421PS Rev.3 20 / 2.4.3 2.4.

3.1 How to Operate Start To start the Menu Mode, turn the printer on while holding down SW2 + SW1. When the printer's initialization ends correctly, the printer prints the title "Menu Print" and all the menu items and set values. Then, the printer line-feeds until the print result goes beyond the Manual Cutter position, prints the item/set value immediately after "Menu Print", then, waits for a switch to be pressed. 2.

4.3.2 Operation The switch functions during the menu mode are as follows: Switch SW2 SW3 Function Advances the set values of the Menu Item, one at a time. From the last set value, returns to the first set value. Ends Menu Mode.

Registers the set values in EEPROM, then, prints the end message "Menu End" and returns to the same initialized state as at power on. Advances the Menu Items, one at a time. From the last Menu Item, returns to the first Menu Item. Feeds the receipt, by one line. SW1 SW4 41049421PS Rev.3 21 / 2.5 HEX DUMP FUNCTION (Receipt) This function converts received data, as it is, to character codes, and prints it in the Receipt mode. The printed contents are as follows: Upon receiving one byte, the printer divides it into three characters, High-nibble, Low-nibble and a space. Regarding these as 1 block, the printer prints 8 blocks in one line, then, prints the same data in the character format. Upon entering the HEX dump mode, the printer prints "Hex Data Dump".

(Title printing) 2.5.1 Print Format Hex Data Dump 0000 XX XX XX XX XX XX XX XX :

0008 XX XX XX XX XX XX XX XX :

.....

.. FFF8 XX XX XX XX XX XX XX XX :

0000 XX XX XX XX XX XX XX XX :

.. Line No. Hex data ASCII data 2.5.

2 How to Print (1) If it does not receive data after 150ms have passed since receiving last data, the printer starts printing (CR) if it has some data. (If there is not enough data to form 8 blocks, spaces will be used.) If it subsequently receives data, the printer prints from a position next to the position at which the printing started. If it receives the I-PRIME signal (Parallel model)/Reset signal (Serial model), the printer starts printing if it has some data, then, feeds one line. Then, the printer is initialized.

(If it does not have any data, the printer feeds one line and then, is initialized.) After the initialization, the printer starts up in dump mode again and prints. The line number is reset, however, and counting begins from "0000". * When I-PRIME signal (Parallel model)/Reset signal (Serial model) is hard reset (setting by Short Plug with Parallel I/F board and by DIP SW with Serial I/F board), it immediately starts initialization and does not continue hex dump. One line-feed is added for every 16 lines.



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The count begins from "0000" when the line number exceeds "FFF8". (2) (3) (4) 41049421PS Rev.3 22 / 2.6 PLATEN MAINTENANCE MODE This function is for switching the platen position when the print head gap is adjusted in the production line. (1) How to start the mode Turn the power on while holding down SW2 + SW3 + SW1.

*1 This mode can be executed even when the print head is not installed. *2 When this mode is being started, the initial platen position should be on the Receipt side. If the paper is already loaded in the Tractor mode, the platen should be on the Slip side. How to operate Switch SW2 SW3 SW1 SW4 (3) How to exit the maintenance mode Turn the power off. Function Moves the platen to the Receipt side. Moves the platen to the Slip side. Invalid (2) 41049421PS Rev.3 23 / 3. COMMAND DESCRIPTION The intent of this document is to describe the details of the command functions that are effectuated by the firmware. 3.

1 Control Code 3.1.1 3.1.1.

1 (1) Control Code List Function Code List of Function Codes Remarks Print/line feed Eject Cut Sheet paper or form-feed sprocket paper Print/carriage return Condense Designate Section Print Start 3.2.3.1 3.2.3.7 3.2.1.1 3.2.5.10 3.2.5.

12 3.2.8.4 3.1.1.2 3.1.1.3 3.

1.1.4 3.1.1.

5 3.2.2.5 No. HEX DEC CODE 1 2 3 4 5 6 7 8 9 10 11 0A 0C 0D 0F 12 18 10 1B 1C 1D 1E 10 12 13 15 18 24 16 27 28 29 30 LF FF CR SI DC2 Condense Clear CAN Cancel print data DLE Start DLE sequence ESC Start ESC sequence FS GS RS Start FS sequence Start GS sequence Journal Tab * Print Start Column : Command that invokes print start : Command that does not invoke print start : Command that sometimes invokes print start (This applies hereafter.) 3.1.1.2 (1) DLE Sequence Command recognition A code that follows a DLE code is treated as a 7-bit code. (MSB=0) For the parameters, which vary among the commands, see each command's functions. If a function code follows a DLE code, it is treated as a stand-alone function code. If DLE codes come in succession, they are treated as a DLE code. Example: DLE DLE EOT n is treated as command DLE EOT n. DLE sequences HEX 10 04 10 04 08 10 05 Command Sequence DLE EOT n DLE EOT BS n DLE ENQ n Functions Real-time status sending Real-time MICR status sending Real-time request to Printer Section Print Start 3.2.

8.16 3.2.8.18 3.2.8.17 (2) No. 1 2 3 41049421PS Rev.3 24 / 3.

1.1.3 (1) ESC Sequence Command recognition For the handling of codes that follow the ESC Code, when the ESC codes come in succession, and their relationship with the functional codes, the way the DLE sequence is handled applies. ESC sequence list (2) No. 1 2 3 4 5 6 7 8 9 HEX 1B 0F 1B 10 44 1B 10 61 1B 10 63 1B 10 6C 1B 10 72 1B 10 76 1B 20 Command Sequence ESC SI Functions Condense Designate Section Print Start 3.

2.5.11 3.2.8.

9 3.2.8.24 3.2.7.9 3.2.7.10 3.

2.2.1 3.2.8.25 3.2.8.23 3.2.

5.1 3.2.5.9 3.

2.2.2 3.2.3.

13 3.2.3.14 3.2.6.1 3.2.5.2 3.

2.3.2 3.2.3.3 3.2.3.4 3.2.

3.5 3.2.5.5 3.

2.5.6 ESC DLE D Sets up menu items Pno Pa1 Pb1...

Pan Pbn ESC DLE a Pno n ESC DLE c Pno 0 n ESC DLE c Pno 1 n Enables/disables auto status send Selects print sheet Selects set sheet ESC DLE l Pno n1 n2 Sets Left Margin ESC DLE r Pno n ESC DLE v Pno n ESC SP n ESC ! n ESC \$ n1 n2 ESC % 9 n ESC * m n1 n2 data ESC - n ESC 0 ESC 1 ESC 2 ESC 3 n ESC 4 ESC 5 ESC < ESC = n ESC @ ESC A n ESC C n ESC E n ESC G n ESC J n ESC N n ESC O ESC R n ESC U n Real-time status sending Selects Validation insert position Sets character right-side space Designates Print Mode all at once Designates absolute position Feeds paper in increments of n/144" Sets n/144" line feed Designates Bit Image Mode Designates/clears Underline Sets 1/8" line feed Sets 7/72" line feed Sets 1/6" line feed Sets n/144" line feed Sets Italic Mode Resets Italic Mode 10 1B 21 11 1B 24 12 1B 25 35 13 1B 25 39 14 1B 2A 15 1B 2D 16 1B 30 17 1B 31 18 1B 32 19 1B 33 20 1B 34 21 1B 35 22 1B 3C 23 1B 3D 24 1B 40 25 1B 41 26 1B 43 27 1B 45 28 1B 47 29 1B 4A 30 1B 4E 31 1B 4F 32 1B 52 33 1B 55 Designates one-line uni-directional print 3.2.8.7 Selects peripheral device Initializes printer Sets n/72" line feed pitch Sets page length for Sprocket paper Designates/cancels Emphaize print 3.2.8.1 3.2.8.5 3.

2.3.6 3.2.3.8 3.2.5.7 Designates/cancels Double Strike print 3.2.

5.8 Feeds paper in increments of n/144" 3.2.3.11 Sets Sprocket paper perforation skip 3.

2.3.9 Resets Sprocket paper perforation skip 3.2.3.

10 Selects international character set 3.2.4.1 Designates/cancels uni-directional print 3.2.8.6 41049421PS Rev.3 25 / No. HEX Command Sequence ESC w n ESC \ n1 n2 ESC ^ m n1 n2 ESC a n ESC c 0 n ESC c 1 n ESC c 3 n Functions Designates/cancels double width print Designates relative position Designates 9-pin Bit Image Mode Aligns positions Selects print sheet Selects set sheet Section Print Start 3.2.

5.4 3.2.2.3 3.2.6.2 3.2.2.

4 3.2.7.1 3.2.

7.2 34 1B 57 35 1B 5C 36 1B 5E 37 1B 61 38 1B 63 30 39 1B 63 31 40 1B 63 32 Selects paper sensor that enables the 3.2.7.3 paper end signal; valid only with Parallel I/F Selects print stop sensor Enables/disables panel switch Feeds paper for n lines Sets Cut paper wait time Full cut Partial cut (keeping one point uncut) Generaes designated pulse (Open Cash Drawer) Selects character code table Sends peripheral device status Sends paper sensor status Sets/resets Double Height print Designates/cancels Receipt+Journal same data print 3.

2.7.4 3.2.8.3 3.2.3.12 3.2.

7.5 3.2.7.6 3.2.7.7 3.2.8.

11 3.2.4.2 3.2.

8.2 3.2.8.8 3.

2.5.3 3.2.7.8 41 1B 63 34 42 1B 63 35 43 1B 64 44 1B 66 45 1B 69 46 1B 6D 47 1B 70 48 1B 74 49 1B 75 50 1B 76 51 1B 77 52 1B 7A 53 1B 10 41 54 1B 10 42 ESC c 4 n ESC c 5 n ESC d n ESC f t1 t2 ESC i ESC m ESC p m t1 t2 ESC t n ESC u n ESC v ESC w n ESC z n ESC DLE A Pno N1...N8 Selects and sets the barcode type and 3.2.

9.1 size ESC DLE B Pno Pm DATA Prints barcode data 3.2.9.2 * The ESC DLE sequence other than No. 2~8, 53, 54 will be ignored by the sequence. (The data that follows "Pno" will be ignored as many bytes as set by Pno.) 41049421PS Rev.3 26 / 3.1.

1.4 (1) FS Sequence Command recognition For the handling of subsequent codes that follow the FS code, when the FS codes come in succession, and their relationship with the functional codes, the way the DLE sequence is handled applies. FS Sequence table HEX 1C 61 30 1C 61 31 1C 61 32 1C 62 Command Sequence FS a 0 n FS a 1 FS a 2 FS b Functions Reads Check paper Loads Check paper to the print start position Ejects Check paper Requests for resending a result of reading Check paper Section Print Start 3.2.8.
19 3.2.8.20 3.2.

8.21 3.2.8.22 (2) No. 1 2 3 4 3.1.1.5 (1) GS Sequence Command recognition For the handling of subsequent codes that follow the GS code, when the GS codes come in succession, and their relationship with the functional codes, the way the DLE sequence is handled applies. GS Sequence table (2) No.

1 2 3 4 5 HEX 1D 05 1D 45 1D 49 1D 61 1D 72 Command Sequence GS ENQ GS E n GS I n GS a n GS r n Functions Sends a status of the printer status real-time Selects print speed and printhead current flow time Sends a printer ID Enables/disables auto status send Sends a status Section Print Start 3.



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2.8.13 3.2.8.10 3.2.8.14 3.

2.8.12 3.2.8.

15 41049421PS Rev.3 27 / 3.2 Control Operations The control functions are described in the subsequent sections. 3.2.

1 Print Operation Control This section describes the print operation control functions. 3.2.1.1 Name: Print/Carriage Return CR Print/Carriage Return HEX: Code DEC: Functions: (1) (2) (3) (4) To start printing received data and set the position to start receiving the next line's data at the left margin position (start of that line) after printing. To perform Carriage Return and Line Feed if Auto LF is set to Enabled on the menu. To perform Carriage Return to the start position of the line on Receipt side in Receipt+Journal mode. To prompt the mode to shift Receipt+Journal in Validation Mode if Auto LF is set to Enabled on the menu. 13 0DH 41049421PS Rev.3 28 / 3.

2.2 Space Control The space control functions are described in the subsequent sections. 3.2.2.1 Name: Left Margin Set ESC DLE l Pno n1 n2 Setting Left Margin HEX: Code DEC: Function: (1) (2) (3) To set Left Margin in increments of 1/60" from the home position. n1= low-order bytes and n2=high-order bytes The DEL in the command sequence disables MSB. ("90H" is effective as well.) Valid range and definitions of parameters (a) Pno: To designate the number of bytes (number of parameters) following ESC DLE l Pno MSB is invalid. Range: 00H Pno FFH With this command, Pno=2.

(b) To designate the print position by n1 n2 on the basis of the home position. Example) In case of ESC DLE l 02H 02H 00H: n1=02H n2=00H The print position would be: 27 16 108 Pno n1 n2 1BH 10H 6CH Pno n1 n2 Home Position "0" Left Margin (increments of 1/60") (4) In this case, Left Margin is 2/60" from the home position. Range and definitions of n1,n2 0(00H) n1 255 (FFH) 0(00H) n2 255 (FFH) If a value exceeding the value below is set, this command will be ignored and the previous setting will remain valid. The maximum value of n1, n2 would be one that does not fall below 1.25" in the distance to the right margin.

Selected print sheet Receipt/Journal/Receipt+Journal(76.2mm) Receipt/Journal/Receipt+Journal(69.5mm) Slip/(MICR Read)/Sprocket paper (option) Range of n1, n2 0 n2 n1 93 0 n2 n1 77 0 n2 n1 303 Right Margin (") 2.8 2.53 6.

3 (5) (6) (7) (8) Received within the line, this command will be ignored. If setting is made by this command in Receipt/Journal/Receipt+Journal Mode, that setting will be valid for both Receipt and Journal. It will not affect Slip/Validation/Sprocket. If setting is made by this command in Slip/Validation/Sprocket Mode, that setting will be valid for all of Slip/Validation/Sprocket. It will not affect Receipt or Journal. Neither the left margin position that is set in Receipt/Journal/Receipt+Journal Mode nor the left margin position set in Slip/Validation/Sprocket Mode will change when the mode is switched. 41049421PS Rev.3 29 / 3.2.2.

2 Name: Absolute Position Designate ESC \$ n1 n2 Absolute Position Designate HEX: Code DEC: Function: (1) To move a next printing position from the start position in the line to the one designated by n1 n2 in increments of 1/180" or 1/240". Default unit of measurement is 1/180", but 1/240" if Condense is set. n1 = low-order byte, n2 = high-order byte To designate the print position according to n1 n2, based on the left margin position (start position of the line).

The left margin changes, the print start position, too, changes even if the setting is the same. e.g.) ESC \$ 02H 00H n1 = 02H n2 = 00H The print position would be: 27 36 n1 n2 1BH 24H n1 n2 (2) Left Margin Print Position (increments of 1/180 or 1/240") (3) (4) In this case, subsequent data will be printed 2/180" or 2/240" from the left margin. Valid range and definitions of n1,n2 0(00H) n1 255(FFH) 0(00H) n2 255(FFH) Range of n1 n2 (If any value outside the range is designated, the command will be ignored in its entirety.) The range in the table below assumes the left margin position being 0. If Left Margin + Absolute Position exceeds the right margin (inches) in the table below, the command will be ignored in its entirety.

Selected print sheet Range of n1 n2 Margin 504/180" 672/240" 456/180" 608/240" Right Margin (") 2.8 2.53 6.3 6.3 Receipt/Journal/Receipt+Journal 0 n2 n1 504 (1/180") (76.

2mm) 0 n2 n1 672 (2/240") Receipt/Journal/Receipt+Journal 0 n2 n1 456 (1/180") (69.5mm) 0 n2 n1 608 (2/240") Slip/Validation Sprocket (option) 0 n2 n1 1134 (1/180") 1134/180" 0 n2 n1 1512 (2/240") 1512/240" 0 n2 n1 1134 (1/180") 1134/180" 0 n2 n1 1512 (2/240") 1512/240" (5) (6) (7) (8) The amount of movement is calculated according to the following formula. Movement (Distance from left margin) = {n1+(n2 AND 03H) × 256}/180 (inch) or = {n1+(n2 AND 03H) × 256}/240 (inch) 0 movement < 6.3 (inch) If the parameter (n1 n2), which would set the print position to the left of the present print position, is designated, print start is prompted. No underline is added to the movement made by this command.

When Same Data Print is reset with Receipt+Journal, if the present position is located on the Receipt side, the setting within the Receipt print position is valid, and if the present position is located on the Journal side, the setting within the Journal print range is valid. (On the Journal side, the left edge of the Journal print area is set as a start position of the print line.) 41049421PS Rev.3 30 / 3.2.2.3 Name: Relative Position Designate ESC \ n1 n2 Relative Position Designate HEX: Code DEC: Function: (1) To move a next print position to the right or to the left, relative to the present position. To move the print position to the position designated by n1 n2 in increments of 1/180" or 1/240". Default unit is 1/180" but 1/240" if Condense is set. n1 = low-order byte, n2 = high-order byte To designate the print position to left/right by the dots as designated by n1 n2, on the basis of the present position being "0.

" Ex.) In case ESC \ 02H 00H is received: n1=02H n2=00H Thus, the print position would be 1/180" or 1/240" 1BH 5CH n1 n2 27 92 n1 n2 (2) Present Position Print Position (3) A pair of n1 n2 consists of 2 bytes making up a 16-bit numerical value. Its 16th bit indicates a code. {positive = right, negative (Two's complement)=left} n2 n1 b bb b MSB 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 LSB 0: Right 1: Left Code bit 41049421PS Rev.3 31 / (4) Direction Range of move Right Margin (") 2.8 2.53 6.3 6.3 2.8 2.

53 6.3 6.3 Selected Print Right Margin Range of n1 n2 Sheet Forward Receipt/Journal 0H n2 n1 504-(present Position) (1/180") 504/180" (76.2mm) 0H n2 n1 672-(present Position) (1/240") 672/240" Receipt/Journal 0H n2 n1 456-(present position) (1/180") (69.



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5mm) 0H n2 n1 608-(present position) (1/240") Slip/Validation Sprocket (option) 0 n2 n1 1134-(present position) (1/180") 0 n2 n1 1512-(present position) (1/240") 0 n2 n1 1134-(present position) (1/180") 0 n2 n1 1512-(present position) (1/240") -(present position) n2 n1<0 (1/180") -(present position) n2 n1<0 (1/240") -(present position) n2 n1<0 (1/180") -(present position) n2 n1<0 (1/240") -(present position) n2 n1<0 (1/180") -(present position) n2 n1<0 (1/240") 456/180" 608/240" 1134/180" 1512/240" 1134/180" 1512/240" Reverse Receipt/Journal (76.

2mm) Receipt/Journal (69.5mm) Slip/Validation Sprocket (option) (5) Maximum value of n2 n1 Selected Print Sheet Maximum value for Forward Maximum value for Reverse 504/180" 672/240" 456/180" 608/240" 1134/180" 1512/240" 1134/180" 1512/240" -504/180" -672/240" -456/180" -608/240" -1134/180" -1512/240" -1134/180" -1512/240" Receipt/Journal (76.2mm) Receipt/Journal (69.5mm) Slip/Validation Sprocket(option) (6) (7) A move in Reverse will prompt print start. If a move outside the printable range is designated, the command is ignored in its entire sequence.

(8) If Underline is designated with the move made by this command, no underline will be applied to the skipped spaces. (9) When Same Data Print is reset with Receipt+Journal, if the present position is located on the Receipt side, the setting within the Receipt print position is valid, and if the present position is located on the Journal side, the setting within the Journal print range is valid. (On the Journal side, the left edge of the Journal print area is set as a start position of the line.) (10) In Validation Mode, if this command is received when the present position is already beyond the right margin, the command will be ignored in its entire sequence. (See 3.4.3 Right Margin Process.) 41049421PS Rev.3 32 / 3.2.

2.4 Name: Position Align ESC a n Position Align HEX: Code DEC: Function: (1) (2) To align the print position Valid range and definitions of n Mode 0 1 2 Value of n 00H, 30H 01H, 31H 02H, 32H Definition Left alignment (Default) Center alignment Right alignment 27 97 n 1BH 61H n (3) (4) (5) (6) (7) (a) If n is any other value than the above, this command is ignored and the previously set mode remains effective. (b) This command is valid only when received at the start of the line. Received some-way into the line, the command will be ignored. Mode 0 (Left alignment) To align the print start position relative to the left margin. Mode 1 (Center alignment) (a) Those characters that would go beyond the right margin will be aligned relative to the center of a next line. (This includes spaces at the start and end of the line.) (b) Even if character pitch is changed in the middle of the line (Normal, Enlarge, and Character right-side space), an entire text will be spread over evenly. Mode 2 (Right alignment) To align the printer end position relative to the right margin. To align image as well.

To align absolute skip and relative slip as well. 3.2.2.5 Name: Journal Tab RS Journal Tab HEX: Code DEC: Function: (1) (2) To move the print position to the top of Journal.

Valid only in Receipt+Journal Mode and if Same Data Print to Receipt/Journal has been reset. (Invalid if the present horizontal position is on the Journal side.) 30 1EH 41049421PS Rev.3 33 / 3.2.

3 Line Feed Control The line feed control functions are described in the subsequent sections. 3.2.3.1 Name: Print/Line Feed LF Print/Line Feed HEX: Code DEC: Functions: (1) To complete receiving data for a line and start printing. To perform one line-feed after printing has ended, according to the amount of line feed set for each type of print sheet (Receipt, Journal, Slip, or Sprocket paper (option)). (To perform line feed for the amount in accordance with each set value in the Receipt+Journal mode.) To perform carriage return after printing by this command has started. The position following carriage return is at the left margin (start of the line). (The position is at the left margin on the Receipt side with the Same Data Print is reset in Receipt+Journal Mode.

) To perform perforation skip to the next TOF position when the selected print sheet is Sprocket (option) if the position following line feed is within the perforation skip area. To set the line feed pitch for each type of print sheet in a combination of designation by ESC 0, ESC 1, ESC 2, ESC 3 n, ESC A n, or ESC % 9 n and Sheet selection by ESC c 1 n, ESC DLE c Pno 1 n. Default line feed is one sixth of an inch (1/6") for all types of print sheet. To perform only carriage return following print start if the line feed pitch is "0." (No line feed is performed.) To perform only carriage return following print start in the Validation mode and prompt the mode to shift to the Receipt+Journal mode when Validation media is removed. 10 0AH (2) (3) (4) (5) (6) (7) 41049421PS Rev.3 34 / 3.2.3.

2 Name: 1/8-inch Line Feed Set ESC 0 1/8-inch Line Feed Set HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) (8) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to one eighth of an inch (1/8"). To perform 1/8-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated. For line feed by Right Margin Over and Switch, too, the 1/8-inch line feed pitch set by this command applies. Default line feed is one sixth of an inch (1/6") for all types of print sheet. This command is effective at any point in the line. Except in the middle of image data or a function sequence. The commands that execute line feed by the line feed pitch set by this command are LF and CR (with Auto LF enabled). This command does not set TOF. The line feed pitch set by this command applies to the following commands. (a) ESC d n (Printing, then feeding paper for an "n" number of lines) (b) ESC C n (Setting the eject length for cut sheet paper and the page length for sprocket paper) (c) ESC N n (Setting perforation skip for sprocket paper) 27 48 1BH 30H 3.

2.3.3 Name: 7/72-inch Line Feed Set ESC 1 7/72-inch Line Feed Set HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) (8) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to seven seventy-seconds of an inch (7/72"). To perform 7/72-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated. For line feed by Right Margin Over and Switch, too, the 7/72-inch line feed pitch set by this command applies.



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Default line feed is one sixth of an inch (1/6") for all types of print sheet. This command is effective at any point in the line. Except in the middle of image data or a function sequence. The commands that execute line feed by the line feed pitch set by this command are LF and CR (with Auto LF enabled). This command does not set TOF.

The line feed pitch set by this command applies to the following commands. (a) ESC d n (Printing, then feeding paper for an "n" number of lines) (b) ESC C n (Setting the eject length for cut sheet paper and the page length for sprocket paper) (c) ESC N n (Setting perforation skip for sprocket paper) 27 49 1BH 31H 41049421PS Rev.3 35 / 3.2.3.4 Name: 1/6-inch Line Feed Set ESC 2 1/6-inch Line Feed Set HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) (8) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to one sixth of an inch (1/6"). To perform 1/6-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated. For line feed by Right Margin Over and the switch, too, the 1/6-inch line feed pitch set by this command applies. Default line feed is one sixth of an inch (1/6") for all types of print sheet. This command is effective at any point in the line.

Except in the middle of image data or a function sequence. The commands that execute line feed by the line feed pitch set by this command are LF and CR (with Auto LF enabled). This command does not set TOF. The line feed pitch set by this command applies to the following commands. (a) ESC d n (Printing, then feeding paper for an "n" number of lines) (b) ESC C n (Setting the eject length for cut sheet paper and the page length for sprocket paper) (c) ESC N n (Setting perforation skip for sprocket paper) 27 50 1BH 32H 3.

2.3.5 Name: n/144-inch Line Feed Pitch Set ESC 3 n n/144-inch Line Feed Pitch Set HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) (8) (9) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to n hundred forty-fourth of an inch (n/144"). To perform n/144-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated. For line feed by Right Margin Over and Switch, too, the n/144-inch line feed pitch set by this command applies.

Default line feed is one sixth of an inch (1/6") for all types of print sheet. This command is effective at any point in the line. Except in the middle of image data or a function sequence. The commands that execute line feed by the line feed pitch set by this command are LF and CR (with Auto LF enabled). Range of n 0 n 255 This command does not set TOF. The line feed pitch set by this command applies to the following commands. (a) ESC d n (Printing, then feeding paper for an "n" number of lines) (b) ESC C n (Setting the eject length for cut sheet paper and the page length for sprocket paper) (c) ESC N n (Setting perforation skip for sprocket paper) 27 51 n 1BH 33H n 41049421PS Rev.3 36 / 3.2.3.

6 Name: n/72-inch Line Feed Pitch Set ESC A n n/72-inch Line Feed Pitch Set HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to n seventy-seconds of an inch (n/72"). To perform n/72-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated. For line feed by Right Margin Over and Switch, too, the n/72-inch line feed pitch set by this command applies. Default line feed is one sixth of an inch (1/6") for all types of print sheet. This command is effective at any point in the line. Except in the middle of image data or a function sequence. The commands that execute line feed by the line feed pitch set by this command are LF and CR (with Auto LF enabled). Range of n 0(00H) n 85(55H) 128(80H) n 213(D5H) MSB will be ignored. If an n value is other than the above, this command is invalid and the previously set mode remains valid. This command does not set TOF.

The line feed pitch set by this command applies to the following commands. (a) ESC d n (Printing, then feeding paper for an "n" number of lines) (b) ESC C n (Setting the eject length for cut sheet paper and the page length for sprocket paper) (c) ESC N n (Setting perforation skip for sprocket paper) 27 65 n 1BH 41H n (8) (9) 3.2.3.7 Name: Cut Sheet Paper Print and Eject or Sprocket Paper Form Feed FF Cut Sheet Paper Print and Eject or Sprocket Paper Form Feed HEX: Code DEC: Functions: (1) (2) This command is ignored if the selected print sheet is Receipt/Journal/Receipt+Journal Paper.

The selected print sheet is Slip: · To print the data in the print buffer and perform CR, then prompt the sensor to monitor the bottom of paper, eject a sheet of cut sheet paper and switch the selected print sheet to Receipt+Journal. · If the bottom is not detected after a pre-set amount has been fed, Eject Error occurs. · The command is not affected by the setting by Print Stop Sensor Select (ESC c 4 n). To print data in the print buffer and perform carriage return, then feed paper to the next TOF position if the print sheet is Sprocket paper (with the option tractor installed.) To perform only carriage return following print start if the selected print sheet is Validation, prompting the mode to switch to Receipt+Journal upon removal of Validation * Valid even at the heading position or the TOF position in Step (2) and (3) above.

12 0CH (3) (4) 41049421PS Rev.3 37 / 3.2.3.8 Name: Sprocket Paper Page Length Set ESC C n Sprocket Paper Page Length Set HEX: Code DEC: Functions: (1) To set the page length for sprocket paper by lines, based on the selection by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n). Only the lower seven bits of n are valid. (a) Sprocket Paper selected by Set Sheet Select is valid: · The page length set by this command becomes valid only if the print sheet is Sprocket paper (with the option tractor installed). · To initialize the page length to default (Setting made on Menu "Page Length") if n = 00H. · To set "n x LF pitch" as the page length if n 00H. · If the line feed pitch is 0, the same setting takes place as n=00H.

· The maximum length that can be set is 40 inches and if any length that goes over this limit will be set to 40 inches. · To set the page length based on the line feed pitch for Sprocket paper as a unit of measurement. (The line feed pitch set by ESC 0, ESC 1, ESC 2, ESC 3 n, ESC A n, or ESC % 9 n with Sprocket paper selected by Set Sheet Select.) · Once set, the page length is not affected even if the line feed pitch is changed. · To clear Perforation Skip for Sprocket paper. · When the print sheet is Sprocket paper (with the option tractor installed), the position where this command is received becomes the TOF position.



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· Default page length is the setting made on Menu "Page Length". 27 67 n IBH 43H n 41049421PS Rev.3 38 / 3.2.

3.9 Name: Sprocket Paper Perforation Skip Set ESC N n Sprocket Paper Perforation Skip Set HEX: Code DEC: Function: (1) To set the perforation skip area for an "n" number of lines, based on the line feed pitch for Sprocket paper if Sprocket paper selected by Set Sheet Select is valid. The perforation skip area set by this command becomes valid only if the print sheet is Sprocket paper (with the option tractor installed). To set the perforation skip area based on the line feed pitch set by ESC 0, ESC 1, ESC 2, ESC 3 n, ESC A n, or ESC % 9 n if Sprocket paper is selected by Set Sheet Select. Example: 1 line = 1/6" and n = 12 Perforation Skip Area = 1/6 × 12 = 2 (inches) Range of n Command ESC N n Valid range 0 n 255 Remarks Only the lower 7 bits of n are valid; thus, 0 n 127. If n=0, the entire command is ignored. 27 78 n IBH 4EH n (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) Perforation Skip set by this command is cleared when the page length is set for sprocket paper. Once set, the Perforation Skip area is not affected even if the line feed pitch is changed. To perform Perforation Skip, when a line feed by LF/CR (with Auto Line Feed enabled), ESC J n, ESC d n, or ESC % 5 n brings the position into the perforation skip area, then to feed paper to the next TOF position. If the setting is set as "Page Length Perforation Skip Area, that perforation skip setting becomes invalid, and previous perforation skip setting remains effective.

Difference between ESC O and ESC N 00H: The command ESC O clears Perforation Skip while ESC N 00H is ignored. (In other words, the previous setting remains effective.) When the print sheet is Sprocket paper (with the option tractor installed), if setting a perforation skip area brings the present vertical position into the perforation skip area, the printer can still print one line even if the position is in the perforation skip area. Execution of the next forward line feed command feed paper to the next page's TOF position. When the print sheet is Sprocket paper (with the option tractor installed) and the line feed pitch larger than the perforation skip area is set, if the line feed command that would prompt a jump over the perforation skip area is received, paper is fed as much as the designated amount of line feed. When the line feed pitch is set to 0, if n > 0, the perforation skip set command sets the amount of skip to "0". (This clears Perforation Skip.) When the print sheet is Sprocket paper (with the option tractor installed) and the perforation skip area is set by this command, the setting becomes immediately effective within the current page. The default perforation skip area is now cleared.

41049421PS Rev.3 39 / 3.2.3.10 Sprocket Paper Perforation Skip Reset ESC O Name: HEX: Code DEC: Functions: (1) (2) To reset the perforation skip setting if the sprocket paper selected by Set Sheet Select is valid. Perforation Skip is also reset when the page length is set for Sprocket paper by ESC C n. (This applies only when Sprocket by Print Sheet Select is valid.) 27 79 Sprocket Paper Perforation Skip Reset 1BH 4FH 3.2.3.

11 n/144-inch Paper Feed ESC J n Name: HEX: Code DEC: Function: (1) (2) (3) To print data in the print buffer and perform n/144-inch line feed. To perform carriage return as this command is executed. Range of n Valid range 0 n 255 (4) Remarks No line feed is performed if n=0, but printing starts. 27 74 n n/144-inch Paper Feed 1BH 4AH n (5) (6) To perform Perforation Skip to the next TOF position if n/144-inch paper feed results in the position being within the perforation skip area when the print sheet is Sprocket paper (with the option tractor installed). To perform only carriage return following print start in the Validation mode, prompting the mode to switch to Receipt+Journal upon removal of Validation media.

To perform line feed for as much as each setting in the Receipt+Journal mode. The carriage return position is at the left margin on the Receipt side upon cancellation of Same Data Print. 41049421PS Rev.3 40 / 3.2.

3.12 n-line Paper Feed ESC d n Name: HEX: Code DEC: Function: (1) (2) (3) To print data in the print buffer and perform line feed for an "n" number of lines based on the line feed pitch set for each type of print sheet. This command is accompanied by carriage return. Range of n Valid range 0 n 255 (4) (5) Remarks Line feed is not performed if n=0, but print start is prompted. 27 100 n n-line Paper Feed 1BH 64H n (6) (7) The maximum paper feed amount that can be designated is 40 inches, and if "n x line feed pitch" results in more than 40 inches, line feed is performed just for 40 inches. To perform Perforation Skip to the next TOF position if paper feed for an "n" number of lines results in the position being within the perforation skip area when the print sheet is Sprocket paper (with the option tractor installed). To perform only carriage return following print start in the Validation mode, prompting the mode to switch to Receipt+Journal when Validation media is removed. To perform line feed as much as each setting in the Receipt+Journal mode. The carriage return position is at the left margin on the Receipt side upon cancellation of Same Data Print. 3.

2.3.13 n/144-inch Paper Feed ESC % 5 n Name: HEX: Code DEC: Functions: (1) (2) (3) To print data in the print buffer and perform n/144-inch line feed. This command is accompanied by carriage return. Range of n Valid range 0 n 255 (4) Remarks No line feed is performed if n=0, but print start is prompted. 27 37 53 n n/144-inch Paper Feed 1BH 25H 35H n (5) (6) To perform Perforation Skip to the next TOF position if forward paper feed for n/144" results in the position being within the perforation skip area when the print sheet is Sprocket paper (with the option tractor installed). To perform only carriage return following print start in the Validation mode, prompting the mode to switch to Receipt+Journal upon removal of Validation media. To perform line feed for the amount designated for both Receipt and Journal in the Receipt+Journal mode. The carriage return position is at the left margin on the Receipt side upon cancellation of Same Data Print. 41049421PS Rev.

3 41 / 3.2.3.14 n/144-inch Line Feed Pitch Set ESC % 9 n Name: HEX: Code DEC: Function: (1) (2) (3) (4) (5) (6) (7) (8) (9) To set the line feed pitch for the print sheet selected by the Set Sheet Select command (ESC c 1 n, ESC DLE c Pno 1 n) to n hundred forty-fourth of an inch (n/144"). To perform n/144-inch line feed upon receiving the LF code with the type of print sheet set after this command has been designated.

For line feed by Right Margin Over and Switch, too, the n/144-inch line feed pitch set by this command applies. Default line feed is one sixth of an inch (1/6") for all types of print sheet.



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