

TOSHIBA

Toshiba 4679 User Manual

Gcs dot printer

1

2

3

Table Of Contents

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58

--

•

[Table of Contents](#)

•

Bookmarks

[Download this manual](#)

Quick Links



Point-of-Sale Receipt Printer for China

4679 Model GCS Printer User's Guide

G362-0604-00

TO
Lead

Table of Contents

[Next Page](#)

1
2
3
4
5

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Pos printer (53 pages)

Summary of Contents for Toshiba 4679

[Page 1](#) Point-of-Sale Receipt Printer for China 4679 Model GCS Printer User's Guide G362-0604-00...

[Page 2: Hardware Manual](#)

DOT PRINTER SP712 / 742 SERIES Hardware Manual...

[Page 3: Trademark Acknowledgments](#)

Federal Communications Commission Radio Frequency Interference Statement This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

[Page 4: Table Of Contents](#)

TABLE OF CONTENTS	1
1. Outline	1
2. Unpacking and Installation	2
2-1. Unpacking	2
2-2. Choosing a place for the printer	3
2-3. Handling Care	4
2-4. Maintenance	4
3. Parts Identification and Nomenclature	5
4. Setup	6
4-1. Connecting the Cable to the PC	6
4-2.	

[Page 5](#) 13. USB, Ethernet and Wireless LAN Interface50 13-1. USB Interface Specifications50 13-2. Ethernet Interface Specifications.....50 13-3. Wireless LAN Interface Specifications50 14. Memory Switch Settings51 15. Release History52 Please access the following URL <http://www.star-m.jp/eng/dl/dl02.htm> for the latest revision of the manual.

[Page 6: Outline](#)

1. Outline The SP700 Series Serial Impact Dot Matrix Printer is designed for use with electronic instruments such as POS, banking equipment, computer peripheral equipment, etc. Color None : Standard color (off-white) : Gray Rewinder None : Without rewinder (Standard) : With rewinder Interface : Serial interface (RS-232C)

[Page 7: Unpacking And Installation](#)

2. Unpacking and Installation 2-1. Unpacking After unpacking the unit, check that all the necessary accessories are included in the package. Ribbon cartridge Note Setup sheets CD-ROM Printer Switch blind Roll paper guide Power cord Note: The ferrite core and fastener provided with your printer depend on your printer configuration.

[Page 8: Choosing A Place For The Printer](#)

2-2. Choosing a place for the printer Before actually unpacking the printer, you should take a few minutes to think about where you plan to use it. Remember the following points when doing this. P Choose a firm, level surface where the printer will not be exposed to vibration. P The power outlet you plan to connect to for power should be nearby and unobstructed.

[Page 9: Handling Care](#)

2-3. Handling Care Be careful not to drop paper clips, pins or other foreign matter into the unit as these cause the printer to malfunction. Do not attempt to print when either paper or ribbon cartridge is not located in the printer, otherwise the print head can be damaged.

[Page 10: Parts Identification And Nomenclature](#)

3. Parts Identification and Nomenclature Printer cover Protects the printer from dust and reduces noise. Do not open the cover while printing. Control panel Power switch Features one control switch and two indicators to indicate printer status. Turns printer power on and off.

[Page 11: Setup](#)

4. Setup 4-1. Connecting the Cable to the PC 4-1-1. Parallel Interface Cable Connect the parallel interface cable to a parallel port of your PC. 4-1-2. RC-232 Interface Cable Connect the RC-232 interface cable to a RS-232 port of your PC. 4-1-3.

[Page 12: Connecting The Cable To The Printer](#)

4-2. Connecting the Cable to the Printer Note that the interface cable is not provided. Please use a cable that meets specifications. CAUTION Before connecting/disconnecting the interface cable, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet.

[Page 13](#) 4-2-2. RS-232 Interface Cable (1) Make sure the printer is turn off. CAUTION Before connecting/disconnecting the interface cable, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet.

[Page 14](#) 4-2-4. Connecting Ethernet Cable If a ferrite core is included, install the ferrite core

onto the Ethernet cable according to the following procedure to prevent electrical noise. If a ferrite core is not included, perform steps (1) and (5) only. (1) Make sure the printer is turned off.

[Page 15: Installing The Printer Software](#)

4-3. Installing the Printer Software Here is the procedure for installing the printer driver and utility software, which are stored on the supplied CD-ROM. The procedure applies to the Windows operating systems shown below. • Windows XP (SP2 or later) •...

[Page 16: Connecting To A Peripheral Unit](#)

4-4. Connecting to a Peripheral Unit You can connect a peripheral unit to the printer using a modular plug. See "Modular plug" on page 33 for details about the type of modular plug that is required. Note that this printer does not come with a modular plug or wire, so it is up to you to obtain one that suits your needs.

[Page 17: Connecting The Power Cord](#)

4-5. Connecting the Power Cord Note: Before connecting/disconnecting the power cord, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet. (1) Check the label on the back or bottom of the printer to make sure its voltage matches that of the AC outlet.

[Page 18: Turning Power On](#)

4-6. Turning Power On Make sure that the Power cord has been connected as described in 4-5. Turn ON the power switch located on the front of the printer. The POWER lamp on the control panel will light up. Power switch CAUTION We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods.

[Page 19: Installing The Cable](#)

4-7. Installing the Cable Install the cable as shown in the diagram below. 4-8. Switch Blind Installation It is not necessary to install the switch blind. Only install it if it is necessary for you. By installing the switch blind, the following become possible. •...

[Page 20: Loading The Ribbon Cartridge And Paper](#)

5. Loading the Ribbon Cartridge and Paper 5-1. Loading the Ribbon Cartridge 1 Turn off power to the printer. 2 Open the front cover by holding the finger grips on both ends of the cover and lifting it up. Important! 1.

[Page 21: Loading The Paper](#)

5-2. Loading the paper 1 Open the printer cover by sliding the latch toward you. Important! 1. Do not touch the print head immediately after printing as it can be extremely hot. 2. Do not touch the cutter blade. There is a cutter inside the paper outlet slot. Not only should you not put your hand in the paper outlet slot while printing is in progress, never put your hand into the outlet even when...

[Page 22](#) Tear off the paper as shown. Auto Cutter Model: If the printer cover is closed after turning on the power, the cutter operates automatically and the front end of the paper is cut. Note: When the paper end mark appears on the paper, replace the roll paper before it runs out.

[Page 23: Installing The Roll Paper Guide](#)

5-3. Installing the Roll Paper Guide When using paper roll with 57.5 mm or 69.5 mm width, install the attached roll paper guide in the groove in the printer. The setting for memory switch 2-A and 2-B must be changed to change the print width.

[Page 24](#) Caution Symbol This symbol is placed near the print head to indicate that it may be hot. Never touch the print head immediately after the printer has been used. Let the print head cool for a few minutes before touching it. This symbol is placed near the cutter (auto cutter or manual cutter tear bar).

[Page 25](#) CAUTION P We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods. Because of this, you should locate the printer so that the power outlet it is plugged into is nearby and easy to access. P If the voltage

shown on the label on the of your printer does not match the voltage for your area, contact your dealer immediately.

[Page 26: Control Panel And Other Functions](#)

6. Control Panel and Other Functions 6-1. Control Panel 1 POWER lamp (Green LED) Lights when the power is ON. 2 FEED button Press the FEED button to feed roll paper. 3 ERROR lamp (Red LED) 2 FEED button Indicates various errors in combination with 3 ERROR lamp (Red LED) POWER lamp.

[Page 27: Errors](#)

6-3. Errors 1) Recoverable error Error Descrip- POWER lamp ERROR lamp Buzzer Recovery tion Conditions Paper end error 4 short beeps (0.13 Flashes (On: 1 sec./ sec.) repeated Off: 1 sec.) twice Printer cover open Beep error Front cover open Flashes (On: 0.5 Beep error...

[Page 28](#) *7 Automatically the printer is recovered if the cutter returns to the home position after turn- ing the power OFF and ON. Restoration is also possible with the <DLE> <ENQ> n command when in the ESC/POS mode. Note 1) If the cutter doesn't return to the home position, or doesn't perform the initial move- ment, it cannot be recovered.

[Page 29: Adjustment Mode](#)

6-4. Adjustment Mode There are the following seven adjustment modes. The device will enter the adjustment mode if your turn it on while pressing the FEED switch. (1) The Self Printing Mode is entered by releasing the FEED switch after the buzzer sounds once.

[Page 30](#) 6-4-1. Self Printing Mode Self-printing will be performed to print the Ver. No. and printer settings. ASCII-printing will be repeated when the FEED switch is held continuously at the end of ASCII-printing. The self-printing mode will end automatically when the FEED button is released at the end of ASCII-printing. -...

[Page 31](#) 6-4-2. Adjusting the Dot Alignment Mode You may never have to use the procedure described in this section, but after you have been using your printer for some time you may find that the dots of some graphics do not align correctly. For example, what should look like: may come out looking like one of the following: or like this...

[Page 32](#) (3) To adjust, use the FEED switch to select the adjustment pattern from the printout with the smallest gap between the first printing pass and the return printing pass. Press the FEED switch once to specify the first adjustment pattern, twice to specify the second adjustment pattern, and so on up to seven times to specify the seventh adjustment pattern.

[Page 33](#) 6-4-3. Hexadecimal Dump Mode Each of the signals sent from the computer to the printer will be printed out in hexadecimal code. This function allows you to check if a control code sent to the printer by the program being used is correct or not.

[Page 34](#) 6-4-4. Black Mark Sensor Alignment Mode Turn the printer off and unplug the power cord. Place the printer upright as shown below to remove the screws and remove the dip switch cover from the bottom of the printer. Be sure to place the printer upright because you will not be able to properly adjust the printer if it is placed on its side.

[Page 35: Preventing And Clearing Paper Jams](#)

7. Preventing and Clearing Paper Jams 7-1. Preventing Paper Jams The paper should not be touched during ejection and before it is cut. Pressing or pulling the paper during ejection may cause a paper jam, paper cutting failure or line feed failure. 7-2.

[Page 36: Releasing A Locked Cutter \(Auto Cutter Mode Only\)](#)

Caution Symbol This symbol is placed near the print head to indicate that it may be hot. Never touch the print head immediately after the printer has been used. Let the print head cool for a few minutes before touching it. This symbol is placed near the cutter (auto cutter or manual cutter tear bar).

[Page 37](#) Printer cover (6) After you have opened the printer cover, remove the four screws to remove the printer cover and reveal the cutter. Screws (7) If the cutter is locked, insert a Phillips screwdriver into the Phillips screw hole on the side of the cutter, and turn it in the

direction of the arrow shown below, in order to return the cutter to its normal position.

[Page 38: Peripheral Unit Drive Circuit](#)

8. Peripheral Unit Drive Circuit Peripheral unit drive circuit connector only connects to peripheral units such as cash drawers, etc. Do not connect it to a telephone. Use cables which meet the following specifications. Peripheral Drive Connector Modular plug Signal Function name direction...

[Page 39](#) Notes: 1. Peripheral units 1 and 2 cannot be driven simultaneously. To drive them continuously, set the duty cycle ratio to 20% or less (excluding an externally connected buzzer). Refer to the separate Specifications Manual for details. 2. The following external buzzer is available as an option. External buzzer model: RMB-24 Voltage rating: Average consumption current: Max.

[Page 40: General Specifications](#)

9. General Specifications 9-1. General Specifications Printing method: Serial impact dot matrix Print direction: Bi-directional Number of head pins: 9 wires Number of print columns: 42 columns Character set: ASCII 95 characters Extended graphics: 128 × 40 pages (Star mode) 128 × ...

[Page 41](#) Ribbon material: Nylon 66 (#40 denier) Ribbon life: RC700BR: Black 1,500,000 characters/Red 750,000 characters RC700B: Black 3,000,000 characters Overall dimensions: 160 (W) × 245 (D) × 153.5 (H) mm 153.5 Weight: Approx. 3.0 kg (Tear bar model) Approx. 3.2 kg (Auto cutter model) Interface Parallel interface or RS-232C interface or USB Interface or Ethernet Interface or Wireless LAN Interface...

[Page 42: Power Supply Specifications](#)

9-2. Power Supply Specifications Power Supply: Input: 100 to 240V AC, 50/60Hz Consumption Current: Conditions: Excluding peripheral unit driving Operating: Approx. 36 W (at ASCII printing) Stand-by: Approx. 10 W - 37 -...

[Page 43: Dip Switch Setting](#)

10. Dip Switch Setting A DIP switch is provided at the bottom of the printer, and can be set as given in the table below. Be sure to set the power switch to off before changing the settings. It is recommended to use a pointed item like a pen or flat-blade driver screw to change the settings.

[Page 44: Dip Switch](#)

n DIP switch SW No. Function Always ON Should be set on Auto Cutter *1 Invalid Valid Always ON Should be set on Command emulation Star ESC/POS USB mode *2 Printer class Vendor class 2 colors printing Valid Invalid Reserved Print head model *3 18 pin wire 9 pin wire...

[Page 45: Rs-232C Interface Model](#)

10-1. RS-232C Interface Model The RS-232C interface model is equipped with DIP switches on the serial interface board unit to change the communication settings. Change the settings for DIP switch No. 2 according to the following procedures. Turn off the printer and all components connected to it. Remove the 2 screws.

[Page 46: Parallel Interface Model](#)

10-2. Parallel Interface Model The parallel interface model is equipped with the main DIP switch only. 10-3. USB Interface Model The USB interface model is equipped with the main DIP switch only. 10-4. Ethernet Interface Model n Initializing Settings Set the push switch as described below to initialize the setting information. Push the switch for one to five seconds while running under normal operating mode.

[Page 47: Wireless Lan Interface Model](#)

10-5. Wireless LAN Interface Model DIP-SW 2 Switch Fixed at OFF Initialize of setting information — Change DIP Switch 2-2 to ON to initialize the setting information when the power is turned on. The factory settings of DIP switch are all off. LED Display Green : Lights when packets are received.

[Page 48](#) This product contains Transmitter Module which conforms to the R&TTE Directive. This product contains Transmitter Module FCC ID: M4B6180210. This product contains Transmitter Module IC: 5844A-6180210. Strictly observe the export control laws of the country for export when exporting this product.

[Page 49](#) Connecting the peripheral drive cable Connect the peripheral drive cable to the connector on the printer. Then, connect the other end of the cable to the peripheral drive circuit. EU only Except for EU - 44 -...

[Page 50: Rs-232C Serial Interface](#)

11. RS-232C Serial Interface 11-1. Interface Specifications 1 Data transmission method: Asynchronous serial interface 2 Baud rate: Selectable from 4800, 9600, 19200, 38400 bps (Refer to "10. DIP Switch Setting".) 3 Word length Start bit: 1 bit Data bit: 7 or 8 bits (selectable.) Parity bit: Odd, even or none (selectable.) Stop bit: 1 bit length 4 Signal polarity...

[Page 51: Pins And Signal Names](#)

11-2. Pins and Signal Names Pin No. Signal Name Direction Function — Frame ground Transmission data Receive data Always space N.C. Not connected Dip switch 2-7 = OFF (1) STAR Mode Status of this signal is not checked. (2) ESC/POS Mode •...

[Page 52: Interface Connections](#)

Pin No. Signal Name Direction Function X-On/X-Off Communication Mode Always space, except during following conditions: • Period between reset and communication enabled • During self printing and dot alignment adjustment 21 - 24 N.C. Not connected INIT Dip switch 2-8 = OFF Status of this signal is not checked.

[Page 53: Parallel Interface](#)

12. Parallel Interface The two-way parallel interface is compatible with the IEEE1284 compatibility mode and nibble mode. 12-1. Table of Connection Signals for Each Mode Compatibility Mode Nibble Mode Pin No. Direction Signal Name Signal Name nStrobe HostClk Data0 Data0 Data1 Data1...

[Page 54](#) Compatibility Mode Nibble Mode Pin No. Direction Signal Name Signal Name EXT GND — Compulsion Status — Logic High (+5V) — nSelectIn 1284Active Note: 1. The prefix "n" on the signal name refers to low active signals. If the host does not have any one of the signal lines listed above, two-way communication fails.

[Page 55: Usb, Ethernet And Wireless Lan Interface](#)

13. USB, Ethernet and Wireless LAN Interface 13-1. USB Interface Specifications General Specification: Conforms to USB 2.0 Specifications Communication Speed: USB Full Speed Mode (12 Mbps) Communication Method: USB Bulk Transmission Mode Power Specifications: USB Self-power Function Connector: USB Up-Stream Port Connector (USB Type-B) 13-2.

[Page 56: Memory Switch Settings](#)

14. Memory Switch Settings Each memory switch is stored in EEPROM. For details on the functions and settings of memory switches, see the separate Specification Manual. The table below shows the factory settings for the memory switches. Memory Switch Hexadecimal Code 0000 0000 0000...

[Page 57: Release History](#)

15. Release History Date Rev. No. Contents (Month/Day/ Year) Rev.1.0 08/30/2009 New Release Rev.1.1 07/30/2010 Page 9: Added the description about the Ethernet interface board IFBD-HE08. Rev.1.2 09/29/2011 - 52 -...

[Page 58](#) URL: <http://www.starmicronics.com/support/...>

This manual is also suitable for:

[Sp712 series](#)[Sp742 series](#)