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Toshiba Global Commerce Solutions
TCx Dual Station Printers 6145

TCx Dual Station Printer Quick Installation Guide

Models 2TN and 2TC

Note:

Before using this information and the product it supports, be sure to read Safety Information-Read This First, Warranty Information, Uninterruptible Power Supply Information, and the information under "Notices" on page 19.

Contents

Safety

Before installing this product, read Safety Information.

قبل تركيب هذا المنتج، يجب قراءة الملاحظات الآمنية

Antes de instalar este produto, leia as Informações de Segurança.

在安裝本产品之前，请仔细阅读 Safety Information
（安全信息)。

安裝本產品之前，請先閱讀「安全資訊」。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας
(safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się
z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по
технике безопасности.

Pred inštaláciou tohto zariadenia si pečítaje Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto, lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

About this Quick Installation Guide

This quick installation guide contains information to help you install the Toshiba® 6145 TCx™ Dual Station Printer, Models 2TN and 2TC.

Who should read this quick installation guide

This guide is intended for the person who will be installing the Toshiba TCx Dual Station Printer.

Where to find more information (TCx Printers)

Current versions of Toshiba publications are available on the Toshiba Global Commerce Solutions website at www.toshibacommerce.com/support/publications. The publications listed under the General tab are available to the public.

Note: Access to the product publications require valid user credentials. For information on obtaining a user ID and password, click About us, and then FAQs.

To access a specific Toshiba product publication:

1. Enter your user ID and Password.
2. Click Support.
3. Click Publications.
4. Click the Hardware tab.
5. Scroll down to and click the I/O Devices tab.
6. Select the appropriate manual listed under the POS Printers header, and the PDF will be downloaded to your computer.

Accessing the TGCS Knowledgebase site

Toshiba Global Commerce Solutions has developed a variety of Knowledgebase articles to assist you in using the Toshiba product set. To access the TGCS Knowledgebase articles:

1. Enter your user ID and Password.
2. Click Support.
3. Click Support Overview.
4. Select a product from the Hardware dropdown menu.
5. Scroll down to the bottom of the page, and click Knowledgebase.

Notice statements

Notices in this guide are defined as follows:

Note

These notices provide important tips, guidance, or advice.

Important

These notices provide information or advice that might help you avoid inconvenient or problem situations.

Attention

These notices indicate potential damage to programs, devices, or data. An attention notice is placed just before the instruction or situation in which damage could occur.

CAUTION

These statements indicate situations that can be potentially hazardous to you. A caution statement is placed just before the description of a potentially hazardous procedure step or situation.

DANGER

These statements indicate situations that can be potentially lethal or extremely hazardous to you. A danger statement is placed just before the description of a potentially lethal or extremely hazardous procedure step or situation.

Chapter 1. Installing and configuring your printer

This section provides information on installing and configuring the Toshiba 6145 printer. Before you begin, be sure to read the Safety Information-Read This First, GC32-0609.

To install the 6145 printer:

1. Complete all installation prerequisites (see "Installation prerequisites" on page 9).
2. If applicable, install the printer option card (see Installing an optional interface adapter card).
3. If applicable, connect the communication cables (see "Connecting communication cables" on page 10).
4. If applicable, connect the AC adapter.

   Note: The printer can be powered via a PoweredUSB or an AC adapter. If your printer was shipped with an AC adapter, connect the adapter now.
5. Power on the host system and the printer.

   Note: The printer will power on automatically when the power is applied or when an attached USB host is powered on. You do not have to physically power on the printer.
6. If applicable, set up any network options (see "Setting up network options (if applicable)" on page 11).
7. Configure the printer (see "Configuring the printer" on page 17).
8. Install driver and other solution components.

   Note: Multiple driver options are available for your printer. For details about installing drivers, see the driver documentation.

Installation prerequisites

Before you begin installing your Toshiba TCx Dual Station printer, complete the following steps.

1. Unpackage the printer and options.
2. Verify that the contents of your package includes the following components:

   • TCx Dual Station Printer
   • Toshiba Safety Information manual and additional regulatory documents
   • Ribbon
   • Customized printer options per your order (can be packaged separately), including:

     – Optional interface adapter card (Ethernet or WiFi)
     – Filler panel
     – Cables
     – Power adapter
3. Remove the packing material from the printer.

Installing a filler panel

Based on your printer order, a filler panel might be shipped with your printer. The filler panel is an important part of your integrated system. It secures your printer in the proper position with the system unit and other peripherals.

Refer to the installation documentation for your system unit or filler panel for complete instructions.

Installing an optional interface adapter card (Quick Installation)

There is an option slot on the back of the Toshiba 6145 printer that can extend the functionality of the base printer.

Table 1. Available option cards

Device	Description
Ethernet	10/100 Ethernet port for connection to an industry standard Ethernet LAN
WiFi	801.11 a/b/g/n Wireless LAN Adapter • Frequency Band of 802.11 b/g/n - 2.4 Ghz, power 17 dBm • Frequency Band of 802.11 a/n - 5 Ghz, power 10 dBm

If an optional interface adapter card is included with your order, complete the following steps to install.

Attention: instructions assume power has not yet been applied to the printer. If it has, disconnect power before installing the option card.

1. Loosen the screw **A**.
2. Slide the blank slot cover **B** out of the unit (save the blank slot cover in case you need it in the future).
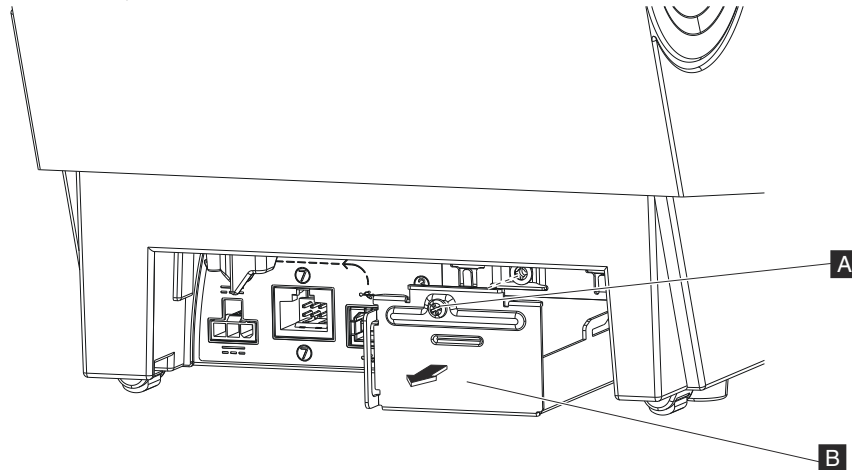

Figure 1. Remove the blank option card

3. Insert and align the optional interface card into the card slot, and slide the interface card into place.
4. Tighten the screw **A**.

   Note: An interface option card (Ethernet or WiFi) and USB are not intended to be used concurrently, except where the USB is used for configuration. Concurrent use of both interfaces can cause errors on one or both interfaces.

Connecting communication cables

If applicable, connect your communication cables (PoweredUSB, standard USB, Ethernet, or RS-232 cable) to the printer, the host system, or applicable communications port.

If you are using a PoweredUSB:

Power off the host system before connecting the cables.

If you are using a standard USB cable:

Use the strain relief to ensure that the connection remains secure during printer operation (see "Using the USB cable strain relief" on page 11).

If a WiFi or Ethernet option is installed:

You might need a USB cable to set up your printer (see "Setting up a WiFi option" on page 11 or "Setting up an Ethernet option" on page 13).

Using the USB cable strain relief

A cable strain relief **A** is attached to the back of the Toshiba TCx Single Station Printer. The USB cable can be routed around this cable strain relief to prevent the cable from being accidentally unplugged.
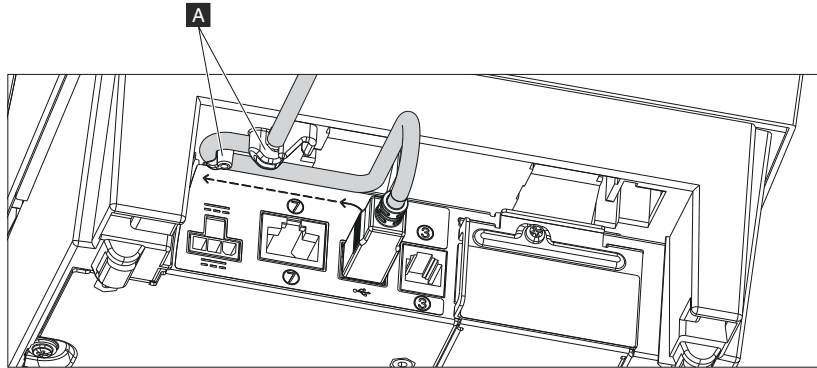

Figure 2. USB cable strain relief (6145-2Tx)

Setting up network options (if applicable)

If you have a WiFi or Ethernet option card installed, you might need to reconfigure your printer's setup to connect to the network. See "Setting up a WiFi option" on page 11 or "Setting up an Ethernet option" on page 13 for instructions on setting up your network.

Setting up a WiFi option

The WiFi option for the Toshiba TCx Dual Station printer can be used as a network client or as an access point. When using the WiFi option as a client, the printer connects to an existing WiFi network. When using the WiFi option as an access point, the number of clients should be limited to no more than two.

You can set up the WiFi option (connecting the client to a network or configuring the access point) using one of the following options:

* "Setting up WiFi using a WiFi connection" on page 11
* "Setting up WiFi with a USB connection" on page 12

After completing setup, the printer will be accessible via the applicable network. Additional configuration or setup changes can be accomplished via that network.

Setting up WiFi using a WiFi connection

To set up the WiFi option using a WiFi connection, complete the following steps.

1. Using the Toshiba 6145 printer offline functions (see Firmware offline tests and the Test/Status Receipt), select the Network Configuration AP Mode option, and then the Select Access Point Mode option. A random password will be generated and printed.

2. Save the random password that is generated and printed when you select AP mode. You will use this password to connect to the printer network.

3. After the printer reboots, print a Test/Status receipt (see the Note in Step 11. The Test/Status receipt contains the information you need to connect to the printer network (or Printer AP).

4. Using a WiFi capable system such as a notebook computer, connect to the printer network. The network name is printed on the Test/Status receipt.

5. Open a browser to the printer IP address printed on the Test/Status receipt. The default IP address is 192.168.0.1.

6. Login to the printer using the default ID/Password of admin/Admin.

7. Open the applicable web page: Access Point or Client.

8. Enable the intended mode of operation.

9. Enter the required parameters.

10. Save the configuration and restart the printer to use the new settings.

11. Print a Test/Status receipt to verify the setup was successful and to identify other network information.

   Note: Network settings (such as the IP address and Hostname) are printed on the Test/Status Receipt. This information might be required to complete solution setup and to view connection status. See Firmware offline tests and the Test/Status Receipt for additional information.

Setting up WiFi with a USB connection

To set up the WiFi option using a USB connection, complete the following steps.

1. Connect the printer to a USB host system with the TCx Printer Configuration Utility installed, and then power on the printer (if it has been powered off).

   Note: The Toshiba 6145 printer will automatically power on when power is applied; therefore, it will already be powered on at this point.

2. Run the TCx Printer Configuration Utility on the host system and select the WiFi menu item.

   For operation as a client:

   1. Select the appropriate WiFi options, such as Client operating mode or Frequency Band.
   2. If connecting to an available network, scan for available networks and select the target network from the list.
   3. Enter the network parameters as required. If the scan function is used, most parameters will be completed based on the target network.
   4. Write the configuration to the printer (see the utility help for additional information).

   For operation as an access point

   1. Select the appropriate WiFi options, such as AP operating mode, Frequency Band, Channel, or Security Type.
   2. Enter the AP parameters, such as the Network Name or Password/key.
   3. Write the configuration to the printer (see the utility help for additional information).

3. Print a Test/Status receipt to verify if the setup was successful and to identify other network information.

Note: Network settings (such as the IP address and Hostname) are printed on the Test/ Status Receipt. This information might be required to complete solution setup and view connection status. See Firmware offline tests and the Test/Status Receipt for additional information.

4. Disconnect the printer from the USB Host system and remove the USB cable unless it is part of the final setup.

   Note: The TCx Printer Configuration Utility can also be used to perform other configuration tasks. See "Using the TCx Printer Configuration Utility" on page 14 for additional information.

Setting up an Ethernet option

Use either a USB connection or an Ethernet connection to set up an Ethernet option (connecting it to a network). After completing setup, the printer will be accessible via the network. Additional configuration or setup changes can be done via that network by using either the printer's web interface or the TCx Printers Configuration Utility.

Setting up an Ethernet option using USB

To set up an Ethernet option using USB, complete the following steps.

1. Connect the printer to a USB host system with the TCx Printer Configuration Utility installed, and then power on the printer if it has been powered off.

   Note: TCx Printers will automatically power on when power is applied; therefore, it will already be powered on at this point.

2. Run the TCx Printers Configuration Utility on the host system and select the Ethernet menu item.

   1. Enter network parameters as required.
   2. Write the configuration to the printer (see the utility help for additional information).

3. Print a Test/Status receipt to verify the setup was successful and determine important network information.

   Note: Network settings (such as the IP address and Hostname) are printed on the Test/ Status Receipt. This information might be required to complete solution setup and view connection status. See Firmware offline tests and the Test/Status Receipt for additional information.

4. Disconnect the printer from the USB Host system and remove the USB cable unless it is part of the final setup.

   Note: The TCx Printer Configuration Utility can also be used to perform other configuration tasks. See "Using the TCx Printer Configuration Utility" on page 14 for additional information.

Setting up an Ethernet option using a network connection

To set up an Ethernet option using a network connection, complete the following steps.

1. By default, the printer uses DHCP to obtain an IP address. If the target network provides a DHCP server, connect the printer to the network by plugging in the Ethernet cable.
2. Customize the printer network settings over the network connection using the printer's web interface (http server and provided web pages) or the TCx Printer Configuration Utility. See "Using the TCx Printer Configuration Utility" on page 14 for additional information.
3. Reboot the printer and wait a few minutes to allow enough time for the DHCP process to complete.

4. Print a Test/Status receipt to verify that the setup was successful and to identify other network information

   Note: Network settings (such as the IP address and Hostname) are printed on the Test/ Status Receipt. This information might be required to complete solution setup and view connection status. See Firmware offline tests and the Test/Status Receipt for additional information.

Using the TCx Printer Configuration Utility

To use the TCx Printer Configuration Utility, complete the following steps.

1. Run the TCx Printer Configuration Utility from a network attached system, such as a computer or POS system.
2. Select the network Device menu (available printers will be listed by IP address). You might need to refresh the list to show a new printer, or in some cases you might need to enter the IP address.
3. Select the printer to be set up and enter the required parameters.
4. Save the configuration and restart the printer to use the new settings.
5. Print a Test/Status receipt to verify the setup was successful, and to determine important network information.

   Note: The network settings (such as the Network name, IP address, and Hostname), which might be required to complete the solution setup, are printed on the Test/Status Receipt. See Firmware offline tests and the Test/Status Receipt for additional information.

Using the web interface

To use the web interface, complete the following steps.

1. Using a network attached system such as a computer or POS system, open a browser to the printer IP address printed on the Test/Status receipt that was previously printed.
2. Login to the printer using the default ID/Password of admin/Admin.
3. Open the Ethernet page and enter the required parameters.
4. Save the configuration and restart the printer to use the new settings.
5. Print a Test/Status receipt to verify that the setup was successful and to identify other important network information.

Initiating the customer receipt test (Test/Status Receipt)

After printing a test receipt, complete the following steps to initiate the customer receipt test.

1. Press and hold both the paper feed **A** and document feed **B** buttons to enter offline mode.
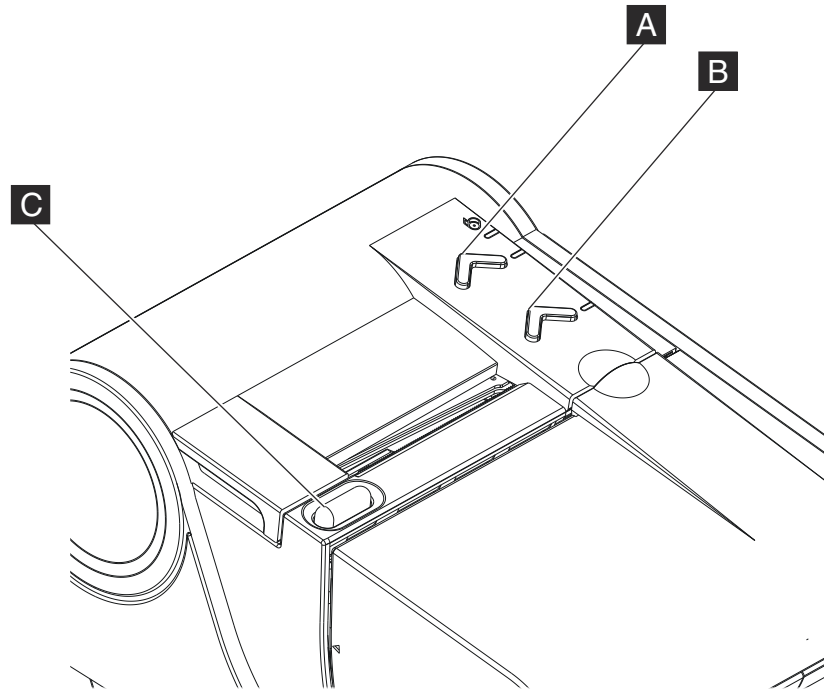
Figure 3. Pressing the paper feed and document feed buttons

2. When the printer beeps and the printer-ready indicator begins blinking, release both buttons.

3. Press and release the paper feed **A** button to start the test.

   Note: The contents of a test receipt varies based on the interface installed (see Figure 4 for an example of a test receipt).

```
Toshiba 6145-2TC
Printer's S/N: 41-12345
Firmware Version: 01.15

Native Mode
Default code page: 858
DBCS 1: CP 1381
DBCS 2: Not Downloaded
DBCS 3: Not Downloaded

Printer Network Configuration
DHCP IP Address : 10.89.152.51
Subnet Mask     : 255.255.252.0
Default Gateway : 10.89.152.1
Hostname        : 6145-1C018D
SNMP Manager 1  : Undefined
SNMP Manager 2  : Undefined
MAC Address     : 24-2F-FA-1C-01-8D

Character examples
Font C          Bold Font C
Font A          Bold Font A
Tall A          Bold Tall A
Font B          Bold Font B

 !"#$%&'( )*+,-./0123456789:;<=>?@ABCDE
FGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijk
lmnopqrstuvwxyz{|}~⌐ÇüéâäàåçêëèïîìÄÅÉæ
ÆôöòûùÿÖÜø£Ø§şáíóúñÑ⅞⅝¿°Ⱶ¥§¡⑩¤ ↑↓←→ÁÂÀ
±|⌐¬⌐€*¡ÖÕÚŰ ãÃⱢᵣ⊥ᵣ⊦⌐⊦⊙HI ¦¦¦      ⑩™℠
   ðÐÊËÈ¡ÎÏÌÓßÔô õÕµÞÚÛÙÝ±÷ ⊟⯀ ▶


HW diagnostics
TPH Type: 01  MLC : 0245
FPGA FW version: 00.17
Pool 18, Obj 3944984 FFFF 00B9
Top : 3812,1824 Bot : 3624,1744
LP 197

Printer Usage Statistics
CR Paper Cuts:                   171
CR Characters Printed:        214482
CR Paper Fed (km):               0.0
CR Cover Openings:               169
DI Characters Printed:         28789
DI Paper Fed (km):               0.0
DI Transport Motor Passes:       707
DI Cover Openings:                42
DI Documents Inserted:            47
MICR Reads:                       18
High Interference MICR Read:       0
Check Flips:                      13
Barcodes Printed:                  5
Date Manufactured:     week 40 of 2017
```

Figure 4. Example of a customer receipt test

Configuring the printer

The Toshiba TCx Dual Station printer operations can be customized for a given POS solution using the TCx Printer Configuration Utility and other solution components. When customizing the Toshiba TCx Dual Station printer, you can use any of the following options:

Printer settings

Defines default code page, default fonts, low paper indications, paper saving options, and many more.

Fonts

Provides user defined fonts, including proportional fonts and Double Byte (DBCS) fonts for both the thermal (Customer Receipt or CR) and impact (Document Insert or DI) stations.

Resident Messages

Provides up to 255 different predefined print messages that can be loaded and printed by a single command. These messages can be used for standard text and/or graphics.

Resident Graphics

Provides up to 255 different predefined graphics that can be loaded and printed by a single command. These graphics can be used to store the company logo printed at the top of a receipt or a watermark that is printed on a receipt.

Network Setup

Enables you to set network parameters, which can also be considered configuration parameters and addressed by the same tools. Some network parameters are unique to a given printer. For example, if fixed IP addressing is being used, the IP is unique to each printer and must be addressed on an individual basis before the printer can function on a network. The network setup is typically addressed separately.

To configure the printer, complete the following steps.

1. Generate a printer configuration.

   A printer configuration is typically generated once for multiple printers. For example, a common configuration could be used for a store or a group of stores.

2. Distribute the configuration package to each host system.

   A configuration package is a group of configuration files that contain all the selected options. This package must be resident on each host system for the automated update processes to work. Some systems management processes can be used to initially distribute the package and following any configuration changes.

3. Trigger the solution update process.

   System software (such as drivers and utilities) that support the TCx Printers includes an update process that typically runs when the system is booted (or rebooted). On the first boot after a printer is installed or replaced, and after a configuration package is updated, the attached printer will be configured per the configuration package. Some solutions will allow the update process to be triggered without a reboot. See the documentation provided with the drivers for additional information.

When the automated processes are not available, you can use the TCx Printers Configuration Utility to configure the 6145 printer.

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