

TOSHIBA

Leading Innovation >>>

Guidance for

AS/400 Print Solution



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Preface

The TOSHIBA e-STUDIO models listed in “Conventions” below provide powerful network printing capability with many output finishing options. Now a means exists to use the controller with an IBM AS/400® system.

About this guide

This guide is for network administrators who are familiar with the IBM AS/400 system. It assumes you are familiar with the software applications used to print documents.

This guide is not designed for digital-copier service technicians or operators. For information on using and maintaining the equipment, refer to the following documents or contact your dealer for support.

- e-STUDIO520/600/720/850, e-STUDIO281C/351C/451C, e-STUDIO352/452, e-STUDIO202L/232/282, e-STUDIO2500C/3500C/3510C, e-STUDIO523/603/723/853, e-STUDIO353/453, e-STUDIO203L/233/283 and e-STUDIO283C/353C/453C:
Operator’s Manual for Basic Functions
- e-STUDIO2020C/2330C/2820C/2830C/3520C/3530C/4520C, e-STUDIO5520C/6520C/6530C, e-STUDIO205L/255/305/355/455, e-STUDIO555/655/755/855, e-STUDIO5540C/6540C/6550C and e-STUDIO2040C/2540C/3040C/3540C/4540C:
Copying Guide
- e-STUDIO165/205, e-STUDIO167/207/237 and e-STUDIO182/212/242:
Operator’s Manual for Copying Functions

Conventions

- The term “equipment” in this manual refers to the following models:
 - e-STUDIO520/600/720/850
 - e-STUDIO281C/351C/451C
 - e-STUDIO352/452
 - e-STUDIO202L/232/282
 - e-STUDIO2500C/3500C/3510C
 - e-STUDIO165/205
 - e-STUDIO167/207/237
 - e-STUDIO523/603/723/853
 - e-STUDIO353/453
 - e-STUDIO203L/233/283
 - e-STUDIO2020C/2330C/2820C/2830C/3520C/3530C/4520C
 - e-STUDIO5520C/6520C/6530C
 - e-STUDIO283C/353C/453C
 - e-STUDIO205L/255/305/355/455
 - e-STUDIO555/655/755/855
 - e-STUDIO182/212/242
 - e-STUDIO5540C/6540C/6550C
 - e-STUDIO2040C/2540C/3040C/3540C/4540C

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1. WorkStation Customization Object for TOSHIBA e-STUDIO

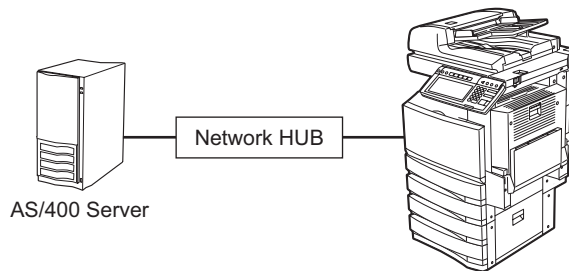
Overview

Components

The components of the AS/400® Printing Solution are:

- AS/400 Server OS version 5.2 or later (The latest PTF is recommended)
- Your equipment (See *NOTE below.*)
- WorkStation Customization Object for TOSHIBA e-STUDIO

The configuration diagram illustrates the relationship among these components.



AS/400 Printing Solution components

Print data generated with AS/400 can be printed out from a TOSHIBA MFP by relating them with OUTQ which was set up with the WorkStation Customization Object for TOSHIBA e-STUDIO.

- NOTE:
- The WorkStation Customization Object for TOSHIBA e-STUDIO does not support the following models:
 - e-STUDIO281C/351C/451C
 - e-STUDIO2500C/3500C/3510C

Finishing options and logical printers

TOSHIBA offers several finishing options in addition to standard print commands coming from the AS/400. For example, stapling is a finishing option.

Installation

Installation procedure

Before installing the WorkStation Customization Object for TOSHIBA e-STUDIO, configure the system environments as follows:

- Set up AS/400 Server under the environment that allows you to use printing functions.
- Set up a TOSHIBA MFP under an environment that allows you to use it in a network.
- Connect the AS/400 Server and the TOSHIBA MFP with a LAN cable.

Step 1: Installing WorkStation Customization Object for TOSHIBA e-STUDIO


This section describes how to install the WorkStation Customization Object for TOSHIBA e-STUDIO.

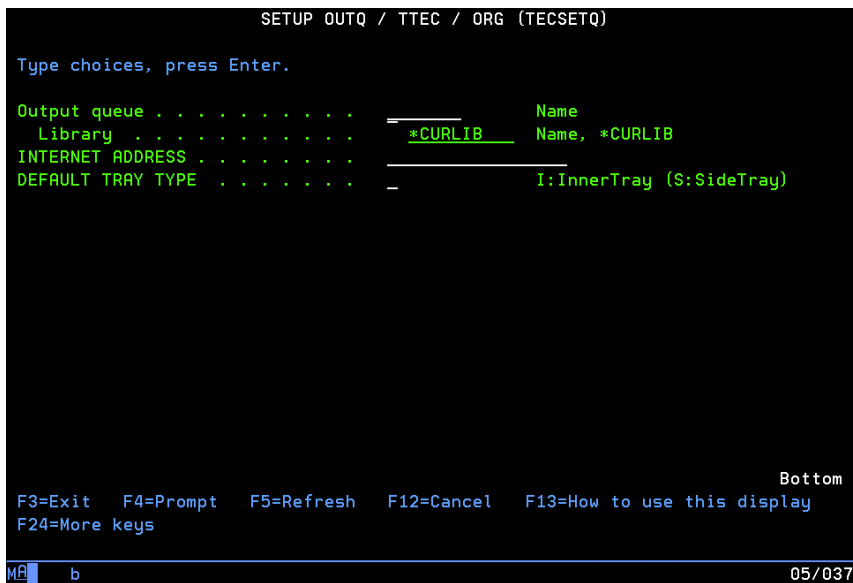
1. Mount a product CD into a CD-ROM drive.
2. Login as a user with QSECOFR authority.
3. Execute a command [LODRUN] + [F4] and then specify the CD-ROM drive where you mounted the product CD.

```
Load and Run (LODRUN)
Type choices, press Enter.
Device . . . . . > OPT01_____ Name, *TAP, *DKT, *OPT
Directory . . . . . /_____
Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
MAI b 05/042
```

4. The setting screen for OUTQ appears as the installation is executed. Specify the name of OUTQ (maximum 7 bytes) to be used, its library, the IP address of the printer and default tray type*. Then press the execution key.

* default tray type

- e-STUDIO5520C/6520C/6530C, e-STUDIO5540C/6540C/6550C
Enter "I" (InnerTray) or "S" (SideTray). If you use both of them, enter one, install "WorkStation Customization Object for TOSHIBA e-STUDIO" and then register the other when setting it up. For details of the setting up, see the following page:
 P.15 "Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO"
- Other models
Enter "I" (InnerTray).



```
SETUP OUTQ / TTEC / ORG (TECSETQ)



Type choices, press Enter.

Output queue . . . . . _____ Name
Library . . . . . _____ *CURLIB Name, *CURLIB
INTERNET ADDRESS . . . . . _____
DEFAULT TRAY TYPE . . . . . _____ I:InnerTray (S:SideTray)

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

MA b 05/037
```

5. The installation is completed.

- The installation is properly completed unless any error messages appear. You can go to the following page because in this case the next step "Setting up WorkStation Customization Object for TOSHIBA e-STUDIO" is also completed:
 P.16 "Step 3: Starting up auto assign (resident) program"
- An error message appears when the specified OUTQ name already exists or OUTQ was not generated because a parameter value is in error.
- If an error message appears or you stopped the command by pressing [F12] or [F3], go to the following page:
 P.15 "Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO"

Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO

This section describes how to set up the WorkStation Customization Object for TOSHIBA e-STUDIO.

1. Login as a user with QSECOFR authority.
2. Execute the command below to add a library "WTEC02" to the top of the library list.
ADDLIB WTEC02
3. Execute a command [TECSETQ] + [F4]. Then specify the name of OUTQ (maximum 7 bytes) to be used, its library, the IP address of the printer and default tray type*. Then press the execution key.

* default tray type
 - e-STUDIO5520C/6520C/6530C, e-STUDIO5540C/6540C/6550C
Enter "I" (InnerTray) or "S" (SideTray). If you use both of them, enter one, set up "WorkStation Customization Object for TOSHIBA e-STUDIO" and then set it up again for registering the other.
 - Other models
Enter "I" (InnerTray).

```
SETUP OUTQ / TTEC / ORG (TECSETQ)

Type choices, press Enter.

Output queue . . . . . Name
Library . . . . . *CURLIB Name, *CURLIB
INTERNET ADDRESS . . . . .
DEFAULT TRAY TYPE . . . . . I:InnerTray (S:SideTray)

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

MA b 05/037
```

4. The setup is completed.
 - The setup is properly completed unless any error messages appear.
 - An error message appears when the specified OUTQ name already exists or OUTQ was not generated because a parameter value is in error.
 - If an error message appears or you stopped a command by pressing [F12] or [F3], execute the command [TECSETQ] + [F4] again.

Step 3: Starting up auto assign (resident) program

This section describes how to start up auto assign (resident) program.

- NOTE:
- It is recommended to load the auto assign (resident) program into IPL.

1. Login as a user with QSECOFR authority.

2. Execute the command below to add a library "WTEC02" to the top of the library list.

```
ADDLIB WTEC02
```

3. Execute a command [STRTECPRT] + [F4]. Then select the name of OUTQ that you specified at the installation or setup, a job queue to use and its library. Then press the execution key.

- NOTE:
- If you use a job queue and the library at their initial values, this program will run within QBATCH.

```
Start TEC Printer (STRTECPRT)
Type choices, press Enter.
Output queue . . . . . _____ Name
Job queue . . . . . *JOB_____ Name, *JOB
Library . . . . . *LIBL_____ Name, *LIBL, *CURLIB

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
MA b 05/037
```


4. The program is started up.

- Execute a command [WRKACTJOB] to display the list. If the status of this program is displayed as "DEQA" in the list, the program is properly started up.
- If the name of OUTQ to be monitored or a job queue to be used is incorrect, the status of this program is displayed as "MSGW" in the list. In this case, confirm the message and then execute the command [STRTECPRT] + [F4] again.

```
Work with Active Jobs S65AA1FB
07/10/09 13:34:24
CPU %: .9 Elapsed time: 00:00:08 Active jobs: 186

Type options, press Enter.
 2=Change 3=Hold 4=End 5=Work with 6=Release 7=Display message
 8=Work with spooled files 13=Disconnect ...

Opt Subsystem/Job User Type CPU % Function Status
--- ENG2924 QSYS SBS .0
--- E2924BB1 PGMR20ENG INT .8 CMD-WRKACTJOB RUN
--- QBATCH QSYS SBS .0
--- TEC1 PGMR20ENG BCH .0 PGM-TTEC000 DEQW
--- QCMN QSYS SBS .0
--- QCTL QSYS SBS .0
--- QSYSSCD QPGMR BCH .0 PGM-QEZSCNEP EVTW
--- QINTER QSYS SBS .0
--- QPADEV000B SSL21 INT .0 PGM-@SSLSET DSPW
More...

Parameters or command
==>
F3=Exit F5=Refresh F7=Find F10=Restart statistics
F11=Display elapsed data F12=Cancel F23=More options F24=More keys

MA b 13/002
```

Uninstallation

Uninstallation procedure

Step 1: Uninstalling WorkStation Customization Object for TOSHIBA e-STUDIO

1. Execute a command [WRKACTJOB] and then select a resident OUTQ monitoring program. Then enter option "4". Now the resident program exits.

NOTE: • Turn the power of the printer to be used OFF before starting uninstallation; otherwise the program will exit in the middle of the uninstallation.

```
Work with Active Jobs S65AA1FB
07/10/09 13:55:36
CPU %: .5 Elapsed time: 00:21:20 Active jobs: 180

Type options, press Enter.
2=Change 3=Hold 4=End 5=Work with 6=Release 7=Display message
8=Work with spooled files 13=Disconnect ...

Opt Subsystem/Job User Type CPU % Function Status
---
ENG2924 QSYS SBS .0
+E2924BB1 PGMR20ENG INT .0 CMD-WRKACTJOB RUN
QBATCH QSYS SBS .0 DEQW
4_ TEC1 PGMR20ENG BCH .0 PGM-TTEC000 DEQW
---
QCHN QSYS SBS .0 DEQW
QCTL QSYS SBS .0 DEQW
QSYSSCD QPGMR BCH .0 PGM-QEZSCNEP EVTW
QINTER QSYS SBS .0 DEQW
QPADEV000B SSL21 INT .0 PGM-@SSLSET DSPW
More...

Parameters or command
==>
F3=Exit F5=Refresh F7=Find F10=Restart statistics
F11=Display elapsed data F12=Cancel F23=More options F24=More keys

MA b A 13/002
```

2. Execute a command [DLTOUTQ OUTQ(library name / OUTQ name*1)] to delete the OUTQ specified at the installation.

*1: It shall be the OUTQ name specified at the installation or the setup.

```
MAIN OS/400 Main Menu System: S65AA1FB
Select one of the following:
    1. User tasks
    2. Office tasks
    3. General system tasks
    4. Files, libraries, and folders
    5. Programming
    6. Communications
    7. Define or change the system
    8. Problem handling
    9. Display a menu
   10. Information Assistant options
   11. Client Access/400 tasks
   90. Sign off
Selection or command
==> DLTOUTQ OUTQ(XXXLIB/TEC1)
-----
F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F23=Set initial menu
MA b A 20/007
```

3. Execute a command [ENDWTR OUTQ name*1 01*IMMED] to disconnect the printer.

*1: It shall be the OUTQ name specified at the installation or the setup.

-
- NOTE:
- The part "01" after the OUTQ name shall be changed from "01" through "07" as you repeat this command seven times.

```
MAIN OS/400 Main Menu System: S65AA1FB
Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. Client Access/400 tasks

 90. Sign off

Selection or command
==> ENDWTR TEC101 *IMMED

F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F23=Set initial menu

MA b A 20/007
```

4. Execute a command [WRKOUTQ OUTQ name*1*] to confirm that no spool remains.

*1: It shall be the OUTQ name specified at the installation or the setup.

```
MAIN OS/400 Main Menu System: S65AA1FB
Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. Client Access/400 tasks

 90. Sign off

Selection or command
==> WRKOUTQ TEC1*_

F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F23=Set initial menu

MA b A 20/020
```

If "Files" is a value other than "0" and also there are remaining spools, select option "5" to delete the remaining spools.

```
Work with All Output Queues

Type options, press Enter.
2=Change  3=Hold  4=Delete  5=Work with  6=Release  8=Description
9=Work with Writers  14=Clear

Opt  Queue      Library  Files  Writer  Status
---  ---
TEC0101  WTRTTEC02  0      0      RLS
TEC0102  WTRTTEC02  0      0      RLS
TEC0103  WTRTTEC02  0      0      RLS
TEC0104  WTRTTEC02  0      0      RLS
TEC0105  WTRTTEC02  0      0      RLS
TEC0106  WTRTTEC02  0      0      RLS
TEC0107  WTRTTEC02  0      0      RLS

Command
==>

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F24=More keys

MA  b 08/002
```

5. Execute a command [DLTLIB WTEC02] to delete the product library.

```
MAIN OS/400 Main Menu System: S65AA1FB

Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. Client Access/400 tasks

 90. Sign off

Selection or command
==> DLTLIB WTRTTEC02_

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu

MA  b 20/023
```

Operational procedure

Follow the procedure below to operate the WorkStation Customization Object for TOSHIBA e-STUDIO.

1. Specify print file script (ORIENTATION, STAPLE, DUPLEX and DRAWER) for a document to be printed with the MFP.


For the details of file script parameters, see the following page:

 P.23 "Print file script"

2. Change a job to alter the OUTQ specified at the installation or the setup to the one for printing functions.

3. Start up the auto assign (resident) program.

For starting up, see the following page:

 P.16 "Step 3: Starting up auto assign (resident) program"

NOTE: • Start up the resident program every time you execute IPL.

4. Perform routine work.

When you are performing routine work, you do not need to particularly pay attention to this function.

5. Finish a job.

Finish a job in any of the following methods:

- Execute a command [WRKACTJOB]. Then select a job to be finished and select Option "4". Then press the execution key.
- Execute a command [ENDSBS] and then exit the corresponding sub system.

NOTE: • Turn the power of the printer to be used OFF before starting the operation; otherwise the program will exit in the middle of the operation.

Print file script

Specify print file script below according to the printing style of a document to be printed with an MFP.

Printing Style		Attribute	
ORIENTATION	Portrait Landscape	PAGRRT	: *AUTO (Leave it default.) Or select "0" : 90
STAPLE	TOP_LEFT TOP_RIGHT LEFT_DOUBLE TOP_DOUBLE	CORNERSTPL	: *TOPLEFT : *TOPRIGHT : *BOTLEFT : *BOTRIGHT
DUPLEX	LONG_EDGE SHORT_EDGE	DUPLEX	: *YES : *TUMBLE Printing directions on the back sides differ depending on the orientation. See "Printing directions on the back side (DUPLEX)" on the next page.
DRAWER	AUTO	DRAWER	: 1 (Leave it default.)

Example:

The examples of commands for print file script are as follows:

Portrait + DUPLEX SHORT_EDGE + STAPLE TOP_LEFT:

CHGPRTF FILE (library name / spool file name) DUPLEX(*TUMBLE) CORNER-STPL(*TOPLEFT)

Automatic drawer selection

In case of LT/A4, the orientation of the paper is reversed when "TOP_DOUBLE" and "STAPLE" are selected together. Therefore the drawer in this case shall be selected as follows:

LT/A4 (Portrait) + STAPLE TOP_DOUBLE:

DRAWER: LT-R/A4-R

LT/A4 (Landscape) + STAPLE TOP_DOUBLE:

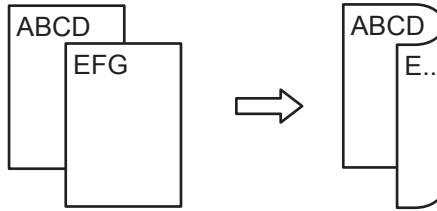
DRAWER: LT/A4

Printing directions on the back side (DUPLEX)

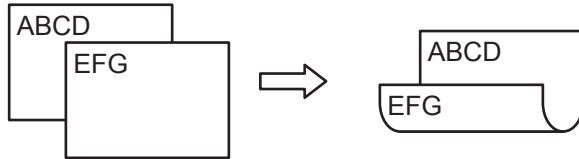
The examples of printing directions on the back side of the paper in case of "DUPLEX" are shown below.

LONG_EDGE: DUPLEX(*YES)

Portrait

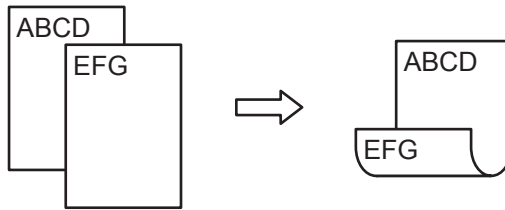


Landscape

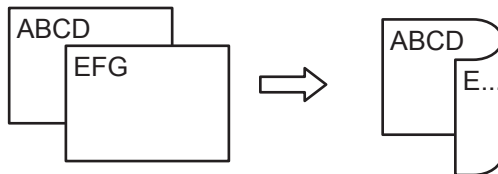


SHORT_EDGE: DUPLEX(*TUMBLE)

Portrait



Landscape



Appendix

Stapling specifications

	OUTQ*1	Printing Specifications		Available Sizes							Remarks	
		Por- trait/ Land- scape	STAPLE	LT	LG	LD	A3	A4	FO	COM		ST
1	xxxxxxx01	Portrait	OFF	✓	✓	✓	✓	✓	✓	✓	✓	Rotational degrees PAGRTT = *AUTO or 0
		Land- scape	OFF	✓	✓	✓	✓	✓	✓	✓	✓	Rotational degrees PAGRTT = 90
2	xxxxxxx02	Portrait	TOP_LEFT	✓	✓	✓	✓	✓	✓	✓	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *TOPLEFT
3	xxxxxxx03	Portrait	TOP_RIGHT	✓	✓	✓	✓	✓	✓	✓	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *TOPRIGHT
		Land- scape	TOP_LEFT	✓	✓	✓	✓	✓	✓	✓	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *TOPLEFT
4	xxxxxxx04	Portrait	TOP_DOUBLE	✓ LTR	✓	✓	✓	✓ A4R	✓	✓	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *BOTRIGHT
		Land- scape	LEFT_DOUBLE	✓ LTR	✓	✓	✓	✓ A4R	✓	✓	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *BOTLEFT
5	xxxxxxx05	Portrait	LEFT_DOUBLE	✓ LT	-	-	-	✓ A4	-	-	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *BOTLEFT
6	xxxxxxx06	Land- scape	TOP_RIGHT	✓	✓	✓	✓	✓	✓	✓	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *TOPRIGHT
7	xxxxxxx07	Land- scape	TOP_DOUBLE	✓ LT	-	-	-	✓ A4	-	-	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *BOTRIGHT

*1: OUTQ numbers assigned by resident programs.

Printing character size - Reference values

Paper Size	CPI	Line	Char.	Remarks
LT	CPI(10)	66	80	
	CPI(15)	66	120	
LT-R	CPI(10)	51	110	Number of characters: 158
	CPI(15)	51	163	
LG	CPI(10)	84	80	
	CPI(15)	84	120	
LG-R	CPI(10)	51	140	Number of characters: 204
	CPI(15)	51	210	
LD	CPI(10)	102	103	PAGRTT(0)
	CPI(15)	102	120	PAGRTT(0)
LD-R	CPI(10)	66	170	Number of characters: 249
	CPI(15)	66	255	
A3	CPI(10)	99	105	PAGRTT(0)
	CPI(15)	99	157	PAGRTT(0)
A3-R	CPI(10)	70	160	
	CPI(15)	70	240	
A4	CPI(10)	70	72	
	CPI(15)	70	108	
A4-R	CPI(10)	49	110	
	CPI(15)	49	165	
CO	CPI(10)	84	101	PAGRTT(0)
	CPI(15)	84	151	PAGRTT(0)
CO-R	CPI(10)	61	140	
	CPI(15)	61	210	
FO	CPI(10)	77	72	
	CPI(15)	77	108	
FO-R	CPI(10)	50	130	
	CPI(15)	50	195	
ST	CPI(10)	51	55	
	CPI(15)	51	82	
ST-R	CPI(10)	33	85	
	CPI(15)	33	125	

* All paper sizes noted "-R" are rotated in "PAGRTT (90)".

Glossary

Definitions of Terms

Term	Definition
DLC	Data Link Control , the data link layer protocol.
Duplex	The process of printing on both sides of a sheet of paper.
Finishing option	A feature provided by TOSHIBA printers and copiers for doing such things as stapling and hole punching documents.
Gateway address	The default address that provides a single point of entry to a network.
IP Address	Internet Protocol address of a computer or server attached to a network.
PCL	Printer Control Language , developed by Hewlett Packard.
Print stream	The information the AS/400 sends to its printer port. This information includes the text to be printed and various print commands for formatting the text and graphics.
Subnet mask	The method used for splitting IP networks into a series of subnets (subgroups).

DP-2090/2520/3000/3570/4570
DP-5550/6550/7550/8550
FC-2020C/2330C/2820C/2830C/3520C/3530C/4520C
FC-5520C/6520C/6530C
DP-1670/2070/2370
FC-2500C/3500C/3510C
DP-1650/2040
FC-281C/351C/451C
DP-5200/6000/7200/8500
DP-3540/4540
DP-2050/2340/2840
DP-1830/2120/2420
FC-5540C/6540C/6550C
FC-2040C/2540C/3040C/3540C/4540C
OME060055J0

**Guidance for
AS/400 Print Solution**

TOSHIBA TEC CORPORATION

2-17-2, HIGASHIGOTANDA, SHINAGAWA-KU, TOKYO, 141-8664, JAPAN