SHARP[®]

MODEL

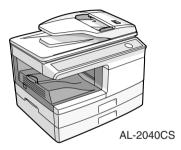
AL-2030 AL-2040CS

DIGITAL MULTIFUNCTIONAL SYSTEM

OPERATION MANUAL

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FOR YOUR PROTECTION...

To aid in reporting this unit in case of loss or theft, please record below the model number and serial number located on the back of the unit. We also suggest you record all the information listed and retain for future reference.

MODEL NUMBER			SERIAL NUMBER
DATE OF PURCHASE			
Dealer			
State	Zip		Telephone
Service Station			
Address		City	
State	Zip		

To obtain service, or to obtain product literature, accessories, or supplies,

please call 1-(630)378-3590 in the USA.

For customer assistance, please visit <u>http://www.sharpusa.com/</u> (for USA) on the World Wide Web or call **1-(630)378-3590** (for USA).



Shielded interface cables must be used with this equipment to maintain compliance with EMC regulations.

Do not make copies of anything which is prohibited from copying by law. The following items are normally prohibited from copying by national law. Other items may be prohibited by local law. • Money • Stamps • Bonds • Stocks • Bank drafts • Checks • Passports • Driver's licenses

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CAUTIONS Caution label on the unit

The label (Λ, Λ) in the fusing area of the unit indicates the following: Λ : Caution, risk of danger Λ : Caution, hot surface

Cautions on using

Follow the cautions below when using this unit.

A Warning:

- The fusing area is hot. Exercise care in this area when removing misfed paper.
- Do not look directly at the light source. Doing so may damage your eyes.

() Caution:

- Place the unit on a firm, level surface.
- Do not install the unit in a humid or dusty location.
- When the unit is not used for a long time, for example during prolonged holidays, turn the power switch off and remove the power cord from the outlet.
- When moving the unit, be sure to turn the power switch off and remove the power cord from the outlet.
- Do not switch the unit rapidly on and off. After turning the unit off, wait 10 to 15 seconds before turning it back on.
- Do not cover the unit with a dust cover, cloth or plastic film while the power is on. Doing so may prevent heat radiation, damaging the unit.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The socket-outlet shall be installed near the unit and shall be easily accessible.

Important points when selecting an installation site

Do not install your unit in areas that are:

- damp, humid, or very dusty
- exposed to direct sunlight
 poorly ventilated
- subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.
- Be sure to allow the required space around the

machine for servicing and proper ventilation.

8" (20 cm)

Cautions on handling

Be careful in handling the unit as follows to maintain the performance of this unit. **Do not drop the unit, subject it to shock or strike it against any object.**

Do not expose the drum cartridge to direct sunlight.

 Doing so will damage the surface (green portion) of the drum cartridge, causing smudges on copies.

Store spare supplies such as drum cartridges and TD cartridges in a dark place without removing from the package before use.

• If they are exposed to direct sunlight, smudges on copies may result.

Do not touch the surface (green portion) of the drum cartridge.

• Doing so will damage the surface of the cartridge, causing smudges on copies.

Supply and Consumables

The supply of spare parts for a repair of the appliance is guaranteed for at least 7 years following the termination of production. Spare parts are those parts of the apparatus which may break down within the scope of ordinary use of the product - whereas those parts which normally exceed the life of the product are not considered spare parts. Consumables also, are available for 7 years following the termination of production.

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- Adobe[®], the Adobe[®] logo, Acrobat[®], the Adobe[®] PDF logo, and ReaderTM are registered trademarks or trademarks of Adobe Systems Incorporated in the United States and other countries.
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For users in the USA



Products that have earned the ENERGY STAR[®] are designed to protect the environment through superior energy efficiency.

Laser information

Wave length	780 nm	+10 nm -15 nm	(Four laser diodes)
Pulse times (North America)	12.88 µs	±12.88 ns/7	' mm
Output power	Max 0.2	mW (Total P	Power)

At the production line, the output power of the scanner unit is adjusted to 1.2 MILLIWATT (Total Power) PLUS 5% and is maintained constant by the operation of the Automatic Power Control (APC).

Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This Digital Equipment is CLASS 1 LASER PRODUCT (IEC 60825-1 Edition 1.2-2001)

SAFETY PRECAUTIONS

This Digital Copier is rated Class 1 and complies with 21 CFR 1040.10 and 1040.11 of the CDRH standards. This means that the equipment does not produce hazardous laser radiation. For your safety, observe the precautions below.

- Do not remove the cabinet, operation panel or any other covers.
- The equipment's exterior covers contain several safety interlock switches. Do not bypass any safety interlock by inserting wedges or other items into switch slots.

A small amount of ozone is produced within the unit during operation. The emission level is insufficient to cause any health hazard.

Note:

The present recommended long term exposure limit for ozone is 0.1 ppm (0.2 mg/m^3) calculated as an 8 hr. time-weighted average concentration. However, since the small amount that is emitted may have an objectionable odor, it is advisable to place the unit in a ventilated area.

SOFTWARE LICENSE

The SOFTWARE LICENSE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENSE.

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INTRODUCTION

This chapter provides basic information for using the unit.

USING THE MANUALS

In addition to this printed manual an online manual is also provided. To get full use of all features and functions of this product, be sure to familiarize yourself with both manuals. This printed manual provides all installation and setup instructions as well as instructions in the use of all copier functions. The online manual contains the following information.

Online manual

Provides you with information on how to specify preferences and troubleshooting. Check the online manual when you use this unit after all the initial setup is completed.

How to use the online manual

Explains how to use the online manual.

Print

Provides information on how to print a document.

Scan (AL-2040CS only)

Explains how to scan using the scanner driver and how to adjust the settings for the Button Manager.

Troubleshooting

Provides instructions on how to solve driver or software problems.

Conventions used in this manual and online manual

- This operation manual explains the operation of the AL-2030 and AL-2040CS models. In cases where the operation is the same, the AL-2040CS is used.
- The illustrations in this manual generally show the AL-2040CS.
- Wherever "AL-xxxx" appears in this manual, please substitute your model name for "xxxx".
- Illustrations of driver screens and other computer screens show the screens that appear in Windows XP Home Edition. Some of the names that appear in these illustrations may differ slightly from the screens that appear in other operating systems.
- This operation manual refers to the Single Pass Feeder as the "SPF".
- In this manual, the following icons are used to provide the user with information pertinent to the use of the unit.



Warns the user that injury may result if the contents of the warning are not properly followed.



Cautions the user that damage to the unit or one of its components may result if the contents of the caution are not properly followed.

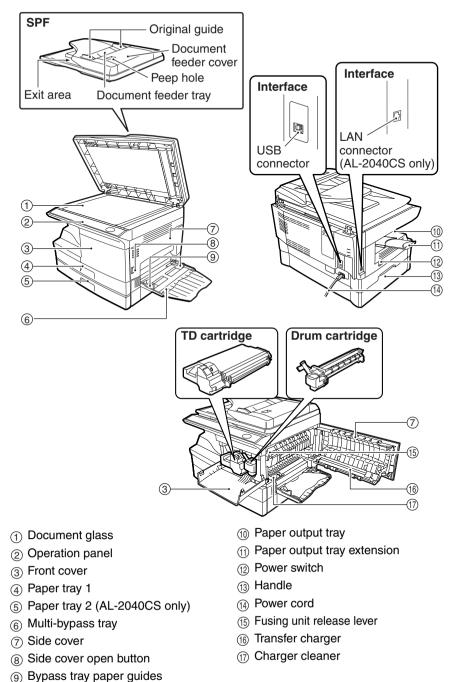


Notes provide information relevant to the unit regarding specifications, functions, performance, operation and such, that may be useful to the user.

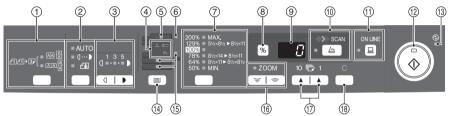


Indicates a letter displayed in the display.

PART NAMES



OPERATION PANEL



① Original to copy key and indicators* Two-sided copies from

one-sided originals. Turn on Long Edge or Turn on Short Edge can be selected.

② Exposure mode selector key and indicators

Use to sequentially select the exposure modes: AUTO, MANUAL or PHOTO. Selected mode is shown by a lit indicator. (p.49)

③ Light and dark keys and indicators Use to adjust the MANUAL or PHOTO exposure level. Selected exposure level is shown by a lit indicator. (p.49) Use to start and terminate user program setting. (p.55)

(4) Alarm indicators

Drum replacement required indicator (p.58)

8/v Misfeed indicator (p.63)

TD cartridge replacement required indicator (p.57)

- 5 SPF indicator (p.48)
- 6 SPF misfeed indicator (p.67)
- ⑦ Copy ratio selector key and indicators

Use to sequentially select preset reduction/enlargement copy ratios. Selected copy ratio is shown by a lit indicator. (p.51)

- (8) Copy ratio display (%) key
 - Use to verify a zoom setting without changing the zoom ratio. (p.51)
 - Use to check the number of originals that must be returned to the document feeder tray if a misfeed occurs in the machine when the SPF is used. (p.68)
- ④ Display

Displays the specified copy quantity, zoom copy ratio, user program code and error code.

- SCAN key and indicator* (p.33, p.41)
 ONLINE key and indicator
 - ONLINE key and indicator Lights up when the unit is used as a printer and scanner*. For description of the ONLINE indicator, see "INDICATORS ON THE OPERATION PANEL" (p.33).

(12) Start key and indicator

- Copying is possible when the indicator is on.
- · Press to start copying
- Use to set a user program. (p.55)

(3) Power save indicator

Lights up when the unit is in a power save mode. (p.54, p.55)

Tray select key Use to select a paper feed station (paper tray 1, paper tray 2* or multibypass tray). (p.51)

Baper feed location indicators Light up to show the selected paper feed station.

(6) ZOOM keys and indicator Use to select any reduction or enlargement copy ratio from 25% to 400% in 1% increments. (When the SPE is being used the zoom copy ratio

400% in 1% increments. (When the SPF is being used, the zoom copy ratio range is 50% to 200%.) (p.51)

① Copy quantity keys

- Use to select the desired copy quantity (1 to 99). (p.49)
- Use to make user program entries. (p.55)
- 18 Clear key
 - Press to clear the display, or press during a copy run to terminate copying. (p.49)
 - Press and hold down during standby to display the total number of copies made to date. (p.56)

* AL-2040CS only



SETTING UP THE UNIT

Follow the installation procedure below to use the unit properly.



If the unit does not function properly during setup or use, or if a function cannot be used, see "TROUBLESHOOTING THE UNIT" (p.61).

SETUP PROCEDURE

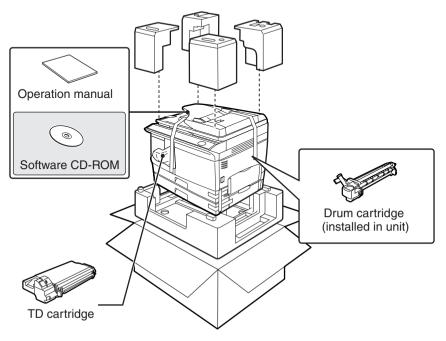
When using the unit for the first time, setup the unit following the procedure shown below.

- 1 Open the package, and make sure that all the accessories are supplied with the unit. (p.8)
- 2 Remove the protective materials. (p.9)
- 3 Install the TD cartridge. (p.10)
- 4 Load the paper in the paper tray (p.15) or the multi-bypass tray. (p.17)
- 5 Plug the other end of the power cord into the nearest outlet. (p.12)
- 6 Install the software.*1 (p.19)
- 7 Connect the interface cable*¹ (p.25) and turn on the unit. (p.12)
- 8 Now, you can copy (p.46), print (p.35) or scan^{*2} (p.36) your document.
- *1 If you are only using the unit for copying, skip this step.
- *2 The scanner function is only available on the AL-2040CS.

CHECKING PACKED COMPONENTS AND ACCESSORIES

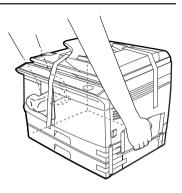
Open the carton and check if the following components and accessories are included.

If anything is not included or is damaged, contact our Technical Assistance Department at 1-(630)378-3590 in the USA.

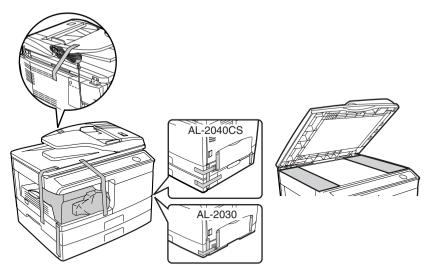


PREPARING THE UNIT FOR INSTALLATION

1 Be sure to hold the handles on both sides of the unit to unpack the unit and carry it to the installation location.

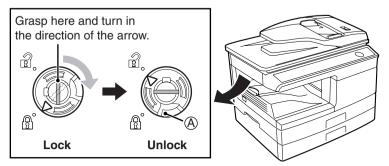


2 Remove all pieces of tape shown in the illustration below. Then open the SPF and remove protective materials. After that, take out the bag containing the TD cartridge.



3 Release the scan head locking switch.

The scan head locking switch is under the document glass. If the switch is locked ($\textcircled{\baselineth{12mu}}$), the unit will not operate. Unlock the switch ($\textcircled{\baselineth{12mu}}$) as shown below.

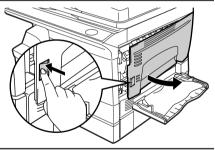


To lock the scan head locking switch, hold up the catch in illustration (A) and turn the center knob counter-clockwise 90 degrees until you hear a click.

INSTALLING THE TD CARTRIDGE

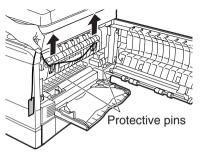


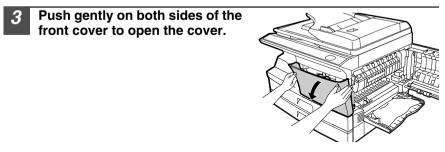
Open the multi-bypass tray, and then open the side cover.



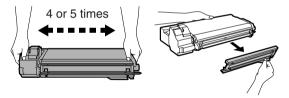
2 Remove the CAUTION tape from the front cover and remove the two protective pins from the fusing unit by pulling the strings upward one at a time.

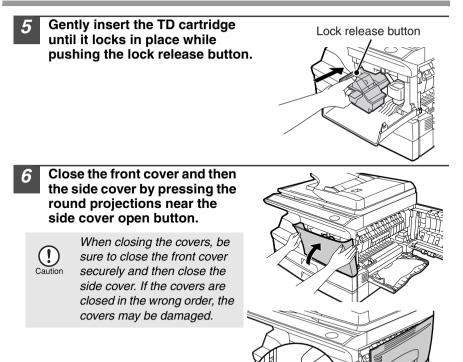






4 Remove the TD cartridge from the bag. Remove the protective paper. Hold the cartridge on both sides and shake it horizontally four or five times. Hold the tab of the protective cover and pull the tab to your side to remove the cover.





POWER ON

Ensure that the power switch of the unit is in the OFF position. Plug the other end of the power cord into the nearest outlet. Turn the power switch on the left side of the unit to the "ON" position. The start (③) indicator will light up and other indicators which show the initial settings of the operation panel will also light up to indicate the ready condition. For the initial settings, see "Initial settings of operation panel" (p.13).



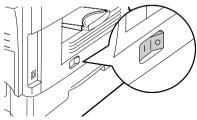
If you use the unit in a country other than the country where the unit was purchased, you will need to make sure that your local power supply is compatible with your model. If you plug the unit into an incompatible power supply, irreparable damage to the unit will result.



- Only insert the power cord into a properly grounded wall socket.
- Do not use extension cords or power strips.



- The unit will enter a power save mode once the set time has elapsed without any unit operation. The settings of the power save modes can be modified. See "USER PROGRAMS" (p.55).
- The unit will return to the initial settings a preset amount of time after the end of a job. The preset amount of time (auto clear time) can be changed. See "USER PROGRAMS" (p.55).



About the scan head

The scan head lamp remains on constantly when the unit is in the ready condition (when the start (3) indicator is illuminated).

The unit adjusts the scan head lamp periodically to maintain copying quality. At this time, the scan head moves automatically. This is normal and does not indicate unit trouble.

Initial settings of operation panel

When the unit power is on, the operation panel will revert to the initial settings when the time set with the "Auto clear time" setting (p.55) elapses after a job is finished, or when the clear key is pressed twice.

The initial settings of the operation panel are shown below.



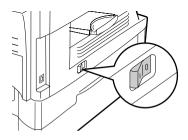
"0" is displayed in the display.

When copying has begun in this state, the settings in the following table are used.

Copy quantity	1 сору
Exposure adjustment	AUTO
Zoom	100%
Tray	Paper tray 1
Two-sided copy (AL-2040CS only)	The "Original to copy" indicator does not illuminate. (One-sided copy is selected.)

Power off methods

If not used for a certain period of time, the unit will automatically enter auto power shut-off mode (p.54) in order to minimize power consumption. In cases where the machine will not be used for a long time, turn off the power switch and remove the power cord from the outlet.





Follow the steps below to load paper into the tray.

PAPER

For best results, use only paper recommended by SHARP.

Type of paper feeding	Туре	e of media	Size	Weight
Paper tray	Standard	l paper	Letter (8-1/2" x 11") Legal (8-1/2" x 14") Invoice (5-1/2" x 8-1/2")	15 lbs. to 21 lbs. (56g/m ² to 80g/m ²)
Multi-bypass tray	Standarc thick pap	l paper and per	Letter (8-1/2" x 11") Legal (8-1/2" x 14") Invoice (5-1/2" x 8-1/2")	14 lbs. to 34.5 lbs.* ² (52g/m ² to
	Special media	Transparency film	Letter (8-1/2" x 11")	128g/m ²)
		Envelope*1	Commercial 10 (4-1/8" x 9-1/2") Monarch (3-7/8" x 7-1/2")	

*1 Do not use non-standard envelopes, and envelopes that have metal clasps, plastic snappers, string closures, windows, linings, self-adhesive, patches or synthetic materials. Do not use envelopes that are filled with air or envelopes that have labels or stamps attached. These will cause physical damage to the unit.

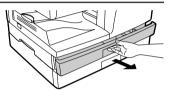
*2 For paper weighing from 28 lbs. to 34.5 lbs. (105g/m² to 128g/m²), 8-1/2" x 11" is the maximum size that can be fed through the multi-bypass tray.

• Special papers such as transparency film, labels and envelopes must be fed one sheet at a time through the multi-bypass tray.

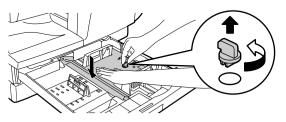
LOADING THE PAPER TRAY



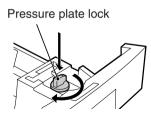
Raise the handle of the paper tray and pull the paper tray out until it stops.



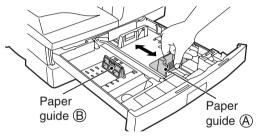
2 Remove the pressure plate lock. Rotate the pressure plate lock in the direction of the arrow to remove it while pressing down the pressure plate of the paper tray.



3 Store the pressure plate lock which has been removed in step 2. To store the pressure plate lock, rotate the lock to fix it on the relevant location.



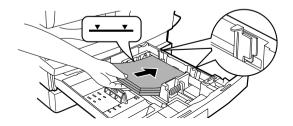
4 Adjust the paper guides on the paper tray to the copy paper width and length. Squeeze the lever of paper guide (A) and slide the guide to match with the width of the paper. Move paper guide (B) to the appropriate slot as marked on the tray.



Fan the paper and insert it into the tray. Make sure the edges go under the corner hooks.



Do not load paper above the maximum height line (.). Exceeding the line will cause a paper misfeed.





Gently push the paper tray back into the unit.

- Be sure that paper is free of rips, dust, wrinkles, and curled or bent edges.
- Make sure all the paper in the stack is the same size and type.
- When loading paper, ensure there is no space between the paper and the guide, and check if the guide is not set too narrow causing the paper to bend. Loading paper in these ways will result in document skew or a paper jam.
- When not using the unit for an extended period, remove all paper from the paper tray and store it in a dry place. If paper is left in the unit for an extended period, the paper will absorb moisture from the air, resulting in paper jams.
- When adding new paper to the paper tray, remove the old paper already contained in the tray. Placing new paper on top of the paper already contained in the tray may result in feeding two sheets at one time.

BYPASS FEED (including special paper)

The multi-bypass tray can be used to feed standard paper, transparency film, labels, envelopes, and other special purpose paper. Paper measuring from $3-1/2" \times 5-1/2"$ to $8-1/2" \times 14"$ and in the weight range of 14 lbs. to 34.5 lbs. ($52g/m^2$ to $128g/m^2$) can be used in this tray. (For paper weighing from 28 lbs. to 34.5 lbs. ($105g/m^2$ to $128g/m^2$), $8-1/2" \times 11"$ is the maximum size.)

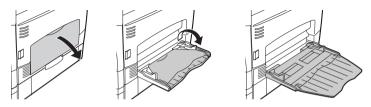


- The multi-bypass tray can hold maximum of 50 sheets of paper. (Capacity will vary depending on the type of paper loaded.)
- The original image must be smaller than the paper or media for copying. If the original image is bigger than the paper or media, this may cause smudges on the edges of the copies.

The multi-bypass tray

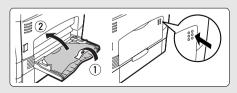


Open the multi-bypass tray and extend the tray.

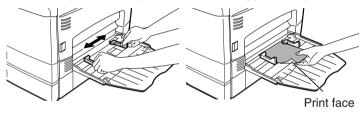




To close the multi-bypass tray, perform step ① and then step ② in the illustration and push the round projections at the right of the tray until they click.



Set the paper guides to the paper width. Insert the paper (print face down) all the way into the multi-bypass tray.



- Paper must be fed narrow side into the feed slot.
- Special papers such as transparency film, labels, and envelopes must be fed one sheet at a time through the multi-bypass tray.
- When copying onto transparency film, remove each copy promptly. Do not let copies stack up.

3

Press the tray select (I) key to select the multi-bypass tray.

Note for loading envelopes

- Envelopes must be fed narrow side into the feed slot at a time.
- Do not use non-standard envelopes, and envelopes that have metal clasps, plastic snappers, string closures, windows, linings, self-adhesive, patches or synthetic materials. Do not use envelopes that are filled with air or envelopes that have labels or stamps attached.
- Envelopes of which the surface is not flat because of embossing may cause the copies/prints to become smudged.
- Under high humidity and temperature conditions the glue flaps on some envelopes may become sticky and be sealed when copied/printed.
- Use only envelopes which are flat and crisply folded. Curled or poorly formed envelopes may be poorly printed or may cause misfeeds.
- Be sure to select either Com10, DL, C5 or Monarch on the paper size setting of the printer driver. (For detailed information on printer driver, refer to the online manual.)
- It is recommended that you perform a test print before performing the actual copy/ print job.

Note for loading thick paper

Copying on thick paper requires higher fusing temperature setting. Set the user program 29 to "2 (High)" when using thick paper. (See page 55 and 56.)

This chapter explains how to install and configure the software that is required for the printer and scanner functions of the machine. The procedure for viewing the Online Manual is also explained.

- The scanner function is only available on the AL-2040CS.
- The screen images in this manual are mainly for Windows XP. With
- Note
- other versions of Windows, some screen images may be different from those in this manual.
- This manual refers to the CD-ROM that accompanied the machine simply as "CD-ROM".

SOFTWARE

The CD-ROM that accompanies the machine contains the following software:

Printer driver (AL-2030)

The printer driver enables you to use the printer function of the machine.

The printer driver includes the Print Status Window. This is a utility that monitors the machine and informs you of the printing status, the name of the document currently being printed, and error messages.

Please note that the printing over a network connection is not possible.

MFP driver (AL-2040CS)

Printer driver

The printer driver enables you to use the printer function of the machine. The printer driver includes the Print Status Window. This is a utility that monitors the machine and informs you of the printing status, the name of the document currently being printed, and error messages.

Please note that the Print Status Window does not operate when the machine is used as a network printer.

Scanner driver*

The scanner driver allows you to use the scanning function of the machine with TWAIN-compliant and WIA-compliant applications.

Sharpdesk* (AL-2040CS)

Sharpdesk is an integrated software environment that makes it easy to manage documents and image files, and launch applications.

Button Manager* (AL-2040CS)

Button Manager allows you to use the scanner menus on the machine to scan a document.

* The scanning feature can only be used with computers that are connected to the machine by a USB cable. If you are connected to the machine by a LAN connection, only the printer function can be used.

BEFORE INSTALLATION

Hardware and software requirements

Check the following hardware and software requirements in order to install the software.

Computer type	IBM PC/AT or compatible computer equipped with a USB 2.0/1.1* ¹ or 10Base-T LAN interface	
Operating system*2 *3	Windows 98, Windows Me, Windows 2000 Professional* ⁴ , Windows XP Professional* ⁴ , Windows XP Home Edition* ⁴	
Display	800 x 600 dots (SVGA) display with 256 colors (or better)	
Hard disk free space	150 MB or more	
Other hardware requirements	An environment on which any of the operating systems listed above can fully operate	

*1 Compatible with Windows 98, Windows Me, Windows 2000 Professional, Windows XP Professional or Windows XP Home Edition preinstalled model standardly equipped with a USB port.

- *2 Printing is not available in MS-DOS mode.
- *3 The machine does not support printing from a Macintosh environment.
- *4 Administrator's rights are required to install the software using the installer.

Installation environment and usable software

The following table shows the drivers and software that can be installed for each version of Windows and interface connection method.

Cable	Operating system	Printer driver	Scanner driver	Button Manager	Sharpdesk
USB	Windows 98/Me/ 2000/XP	Available*1		Available	
LAN	Windows 98/Me/ 2000/XP	Available	١	Not Available*	-2

*1 The printer driver that is installed will vary depending on the type of connection between the machine and your computer.

*2 Although it is possible to install Button Manager and Sharpdesk on Windows 98/Me/2000/XP, neither Button Manager nor the scanner function of Sharpdesk can actually be used.

INSTALLING THE SOFTWARE



- If you need to use a different connection method after installing the software using a USB or network connection, you must first uninstall the software and then install it using the new connection method.
- In the following explanations it is assumed that the mouse is configured for right hand operation.
- The scanner function only works when using a USB cable.
- If an error message appears, follow the instructions on the screen to solve the problem. After the problem is solved, the installation procedure will continue. Depending on the problem, you may have to click the "Cancel" button to exit the installer. In this case, reinstall the software from the beginning after solving the problem.

Using the machine with a USB connection

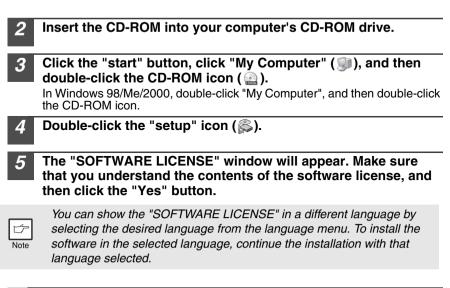


The USB cable must not be connected to the machine. Make sure that the cable is not connected before proceeding. If the cable is connected, a Plug and Play window will appear. If this happens, click the "Cancel" button to close the window and disconnect the cable.

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- F	vote	

6

The cable will be connected in step 13.



Read the "Readme First" in the "Welcome" window and then click the "Next" button.

7 To install all of the software, click the "Standard" button and go to step 12. To install particular packages, click the "Custom" button and go to next step.

Setup Type : Select a ty	Selection 🛛 🔀
	Standard The "Pinter Driver" will be installed for USB connected MFP. Recommended for most users.
6 - 1 - ())/2	Custom You may choose the option you want to install. Recommended for advanced users.
	Cancel

8 Click the "Printer Driver" button.

Click the "Display Readme" button to show information on packages that are selected.



AL-2040CS

7 To install all of the software, click the "Standard" button and go to step 12. To install particular packages, click the "Custom" button and go to next step.

🗟 Setup Type Selection 💽
Select a type of setup to be installed.
Connected to this computer
Standard The MPF driver (Printer and Scanner). Butten Manager, and Sharpdesk will be installed for USB connected MFP. Recommended for most usets.
Source the option you want to install. Recommended for advanced users.
Connected via the network
The Printer Driver Will be installed for a network connected printer.
Set the IP Address
< Back Nex> Cancel



Click the "MFP Driver" button.

Click the "Display Readme" button to show information on packages that are selected.

[Software]	[Display F	Readme
Ś	MFP Driver(Printer/Scanner) The Scanner feature only works when using a USB Interface Cable. Only printing is supported when using a parallel interface cable.	Ð
\$	Utility Software [Button Manager] / [Sharpdesk]	ħ

AL-2040CS

Select "Connected to this computer" and click the "Next" button



Follow the on-screen instructions

When "The installation of the SHARP software is complete." appears, click the "OK" button and go to step 12.

The files required for installation of the MFP driver are copied.

Follow the on-screen instructions.

When "The installation of the SHARP software is complete." appears, click the "OK" button.





If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

You will return to the window of step 8. If you wish to install Button Manager or Sharpdesk, click the "Utility Software" button. If you do not wish to install the Utility Software, click the "Close" button and go to step 12.



After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

Installing the Utility Software

11	Click the "Button Manager" or the	Software Selection
	"Sharpdesk" button.	Select a software to be installed.
	Click the "Display Readme" button to show information on packages that are	[Software] [Display Readme]
	selected. Follow the on-screen instructions.	Button Manager
		Button Manager allows you to use the scanner keys on the machine to scan a document.
		Sharpdesk Sharpdesk Sharpdesk is an integrated software environment that makes it easy to manage documents and image files, and launch applications. Image: Image document and image files, and launch applications.
		< Back Next> Close



In Windows 98/Me/2000, if the following screen appears, click the "Skip" button or the "Continue" button as appropriate to continue the Sharpdesk installation.

If "Skip" is selected, the Sharpdesk installation will continue without installing Sharpdesk Imaging. If "Continue" is selected, Sharpdesk Imaging will be installed. If Imaging for Windows is installed on your computer, Sharpdesk Imaging will overwrite Imaging for Windows.



2 When installing is finished, click the "Close" button.



If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

A message will appear instructing you to connect the machine to your computer. Click the "OK" button.



After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

13 Make sure that the power of the machine is turned on, and then connect the USB cable (p. 25).

Windows will detect the machine and a Plug and Play screen will appear.

4 Follow the instructions in the plug and play window to install the driver.

Follow the on-screen instructions.

If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".



A "USB 2.0 Composite Device" installation window may appear prior to this procedure. In this case, follow the instructions in the window to install the USB 2.0 Composite Device.

This completes the installation of the software.

- If you installed Button Manager, set up Button Manager as explained in "Setting up the Button Manager" (p.36).
- If you installed Sharpdesk, the Sharpdesk setup screen will appear. Follow the instructions in the screen to set up Sharpdesk.

Connecting a USB cable

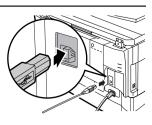
Follow the procedure below to connect the machine to your computer. A USB cable for connecting the machine to your computer is not included with the machine. Please purchase the appropriate cable for your computer.



- USB is available with a PC/AT compatible computer that was originally equipped with USB and had Windows 98, Windows Me, Windows 2000 Professional, Windows XP Professional or Windows XP Home Edition preinstalled.
- Do not connect the USB cable before installing the printer driver. The USB cable should be connected during installation of the printer driver.



Insert the cable into the USB connector on the machine.



2

Insert the other end of the cable into your computer's USB port.

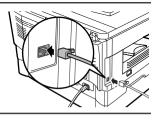
Using the machine as a network printer (AL-2040CS only)



- Interface cables for connecting the machine to your computer are not included with the machine. Please purchase the appropriate cable for your computer.
- If you intend to use the machine as a scanner, it must be connected to your computer with a USB interface cable. The scanner function cannot be used if the machine is connected with a LAN cable.



Insert the LAN cable into the LAN connector on the machine. Use a network cable that is shielded.



2 Turn on the machine.

- 3 Insert the CD-ROM into your computer's CD-ROM drive.
- **4** Click the "start" button, click "My Computer" (**3**), and then double-click the CD-ROM icon (**a**).

In Windows 98/Me/2000, double-click "My Computer", and then double-click the CD-ROM icon.



Double-click the "setup" icon (🔊)



The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the software license, and then click the "Yes" button.

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Note

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.



Read the "Readme First" in the "Welcome" window and then click the "Next" button.



To set the IP address of the machine, follow the steps below. If the machine is already connected to the network and its IP address has been set, go to "LPR (TCP/IP) direct printing" (p.27).

Set the IP Address

This setting is only required once when using the machine on a network.



Click the "Set the IP Address" button.



9 The printer or printers connected to the network will be detected. Click the printer to be configured (the machine) and click the "Next" button.

C-Print AL Install		
Select the printer to be	set a network conf	iguration.
Type Ethernet address	or select from list.	
Ethernet Address	08:00:15:82:3	P.96
Enemer Address	00.00.11.02.0	2.00
Search result overviev	v	
Ethernet Address	IP Address	Model Name
08:00:1F:B2:3E:96	192.168.1.43	AL-XXXXCS
	Initialize	Search
	Next >	Cancel

• The "Ethernet Address" is indicated on the left side of the machine near the LAN connector.



10

 If the machine is used on a different network after the IP address is set, the machine will not be recognized. Enter the Ethernet Address and click the "Initialize" button to initialize the IP address. Follow the on-screen instructions to click the "OK" button and then the "Search" button.

Enter the IP address, subnet
mask, and default gateway.
T I II I I I I I I

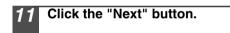
The settings in the above window are examples. Be sure to ask your network administrator for the correct IP address, subnet mask, and default gateway to be entered.

Set a network configuration to the Oget IP Address Automatically OAssign IP Address IP Address Submet Mask	,					
⊙ Assign IP Address IP Address			168			
IP Address	192		168			
· _	192		168			
Subact Mack			100		1	43
Zonuer wask	255		255		255	0
Gateway Address	192		168		1	1
MEMO If you select [Get IP Address A assigns an IP address to this p available, please manually ass	rinter	lf	a ĎHC	Ps	erver	

ß
Note

8

When "Get IP Address Automatically" is selected, the IP address may at times change automatically. This will prevent printing. In this event, select "Assign IP Address" and enter the IP address.

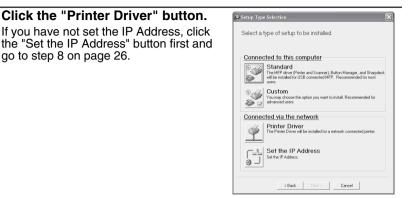


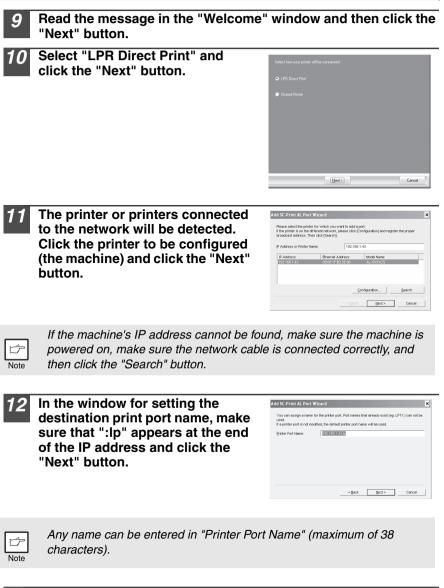
Click the	"Yes"	button.
Go to step	11 on p	age 28.



LPR (TCP/IP) direct printing

After step 1-7 on page 25-26





13	A window appears to let you check your entries. Make sure	Add SC-Print AL I After clicking the
	that the entries are correct and	Printing Destin
	then click the "Finish" button.	Printer Port Ne
	If any of the entries are incorrect, click the "Back" button to return to the appropriate window and correct the entry.	

p

4 Select the port you want to use with the machine, and click the "Next" button.



Select whether or not you wish the printer to be your default printer and click the "Next" button.

Follow the on-screen instructions.



If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

6 When "The installation of the SHARP software is complete." appears, click the "OK" button.



When the "Finish" screen appears, click the "Close" button.



After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

This completes the installation of the software.

Using the machine as a shared printer (AL-2030)

If the machine will be used as a shared printer on a network, follow these steps to install the printer driver in the client computer.



To configure the appropriate settings in the print server, see the operation manual or help file of your operating system.



Perform steps 2 through 6 in "Using the machine with a USB connection" (p.21).



Click the "Custom" button.



3	Click the "Printer Driver" button. Click the "Display Readme" button to show information on packages that are selected.	Select a software to be installed. Select a software to be installed. Select a software to be installed. Select a software to be installed. Private Toriver Private Toriver The private driver enables you to use the private function of the control insching. Control of the control of
4	Select "Connected via the network" and click the "Next" button.	Select how your parter will be convected Connected to the compute Connected to the rotwork (<u>Net 5</u>) Carcel
5	Click the "Add Network Port" button.	Click the port you work to use with this porter. LPTE M Add Natwork Port M Do you work your Windows based programs to use this printer as the default printer? Yes Yes No
6	Select the network printer that is shared and click the "OK" button. Ask your network administrator for the server name and printer name of the machine on the network.	Browse for Printer Select a Network Printer Resource to add to the available list of Ports. My Network Places CK Cancel

In the printer port selection window, verify the network printer that is shared and whether the machine is to be used as the default printer, make the selections and click the "Next" button. Follow the on-screen instructions.



If you are running Windows 2000/XP and a warning message appears regarding the Windows logo test or digital signature, be sure to click "Continue Anyway" or "Yes".

8 You will return to the window of step 3. Click the "Close" button.



After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

This completes the installation of the software.

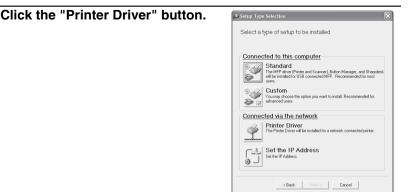
Sharing the printer using windows networking (AL-2040CS)

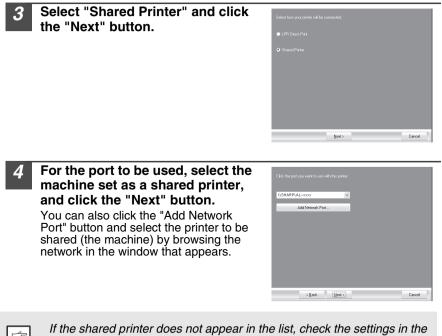
If the machine will be used as a shared printer on a network, follow these steps to install the printer driver in the client computer.



To configure the appropriate settings in the print server, see the operation manual or help file of your operating system.

Perform steps 3 through 7 in "Using the machine as a network printer" (p.25 - p.26).

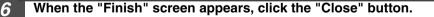




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1	Note

If the shared printer does not appear in the list, check the settings in the printer server.

Follow the on-screen instructions.



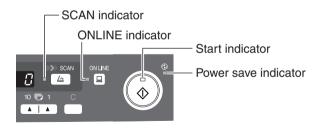


After the installation, a message prompting you to restart your computer may appear. In this case, click the "Yes" button to restart your computer.

This completes the installation of the software.

INDICATORS ON THE OPERATION PANEL

The ONLINE indicator and the start ($\mathring{\startingle}$) indicator indicate the state of the printer or scanner.



Start indicator

On: Indicates the unit is ready for copying or scanning is being performed. Blinking: The indicator blinks in the following situations:

- When a print job is interrupted.
- When reserving a copy job.
- When toner is being replenished during a copy or print job.

Off: The indicator is off in the following situations:

- During copying or scanning.
- The unit is in the auto power shut-off mode.
- When a misfeed or error has occurred.
- During print online.

ONLINE indicator

The ONLINE key is pressed and on line and off line are changed.

- On: Indicates the unit is ready for printing or scanning is being performed. (On line)
- Blinking: Printing or data is being received from a computer.

Off: Copying is being performed. (Off line)

Power save indicator

On: Indicates the unit is in a power save mode.

Blinking: Indicates that the unit is initializing (when the side cover is opened and closed or the power turned off and on).

SCAN indicator (AL-2040CS only)

On: The SCAN (
) key has been pressed and the unit is in scanner mode.

Blinking: A scan job is being executed from the computer, or scan data is stored in the unit's memory.

Off: The unit is in the copy mode.

USING THE PRINTER MODE



For problems with the printer function, see the online manual or the help file for the driver.

Opening the printer driver from the start menu

Open the printer driver setup screen by the method shown below.

1

Click the "start" button.

2 Click "Control Panel", select "Printers and Other Hardware", and then click "Printers and Faxes".

On Windows 98/Me/2000, select "Settings" and click "Printers".



Click the "SHARP AL-xxxx" printer driver icon and from the "File" menu select "Properties".

4 Click "Printing Preferences" button in the "General" tab. On Windows 98/Me, click the "Setup" tab. The printer driver setup screen will appear.

Note

Refer to the Windows manual or help file for more information on the "General" tab, "Details" tab, "Color Management" tab and "Sharing" tab.

How to print

1	Make sure that the paper of the desired size and type is loaded in the tray. The procedure for loading paper is the same as for loading copy paper. See "LOADING PAPER" (p.14).
2	Open the document you intend to print, and select "Print" from the application's "File" menu.
3	Make sure that "SHARP AL-xxxx" is selected as the current printer. If you intend to change any print setting, click the "Preferences" button to open the setting dialog. On Windows 98/Me, click the "Properties" button. On Windows 2000, the "Properties" button does not appear. Set your preferences by switching the tab in the "Print" dialog box.
4	Specify the print settings including the number of copies, media type, and print quality, and then click the "Print" button to start printing. On Windows 98/Me, click the "OK" button to start printing. For details on print settings, see the online manual or the help file for the printer driver.
Note	 If copying is being performed when printing is started, copying will continue. After copying is complete, printing will be executed when the clear key is pressed twice, the ONLINE key is pressed to switch the unit to the online state or approximately 60 seconds (auto clear time)* elapse. * The auto clear time varies with a user program setting. See "USER PROGRAMS" (p.55). Preheat mode and auto power shut-off mode will be canceled when printing is started. If the paper size specified from the software application is larger than the paper size in the printer, part of the image that is not transferred to the paper may remain on the surface of the drum. In this case, the backside of the paper and print two or three pages to clean the image. If you start a print job while a scan job is in progress, the print data will be stored in the unit's memory. When the scan job is completed.

If you start a print job while a scan job is in progress, the print data w be stored in the unit's memory. When the scan job is completed, printing will begin.

USING THE SCANNER MODE (AL-2040CS only)

The scanner driver for this unit includes an STI (Still image) driver and WIA (Windows Image Acquisition) driver. You can install software that supports the STI driver and WIA driver to enable scanning using the operation panel of the unit.

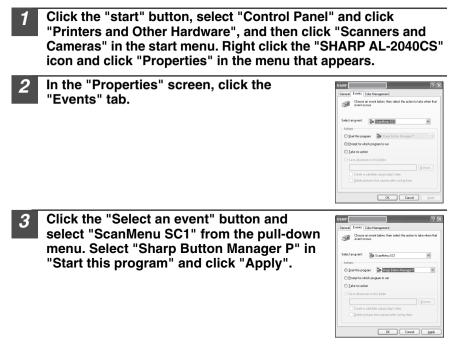


For problems with the scanner function, see the online manual or the help file for the driver.

Using the Button Manager Setting up the Button Manager

The Button Manager accessory software supports the STI driver and WIA driver. Setup that is required in Windows to use the Button Manager is explained in the following.

Windows XP



4 Repeat step 3 to set "ScanMenu SC2" through "ScanMenu SC6".

Click the "Select an event" button and select "ScanMenu SC2" from the pull-down menu. Select "Sharp Button Manager P" in "Start this program" and click "Apply". Do the same for each ScanMenu through "ScanMenu SC6". When the settings have been completed, click the "OK" button to close the screen. When the settings have been completed in Windows, start the Button Manager. Adjust detailed settings and then scan an image from the unit. For the procedures for starting Button Manager and adjusting settings, see "Scan Button Destination Setting Dialog Box" (p.38).

Windows 98/Me/2000

To scan directly into an application using the Button Manager on Windows 98, Windows Me and Windows 2000. Set the Event Manager properties to send only to Button Manager as shown below.

1

Click the "Start" button, select "Control Panel" from "Settings", and open "Scanners and Cameras" in start menu.



In Windows Me, it occasionally happens that the "Scanners and Cameras" icon does not appear immediately after installation of the MFP driver is completed. If the icon does not appear, click "View all Control Panel options" in the Control Panel and display the "Scanner and Cameras" icon.



Select "SHARP AL-2040CS", and click the "Properties" button. In Windows Me, right click "SHARP AL-2040CS" and click "Properties" in the menu that appears.



In the "Properties" screen, click the "Events" tab.

HARP
General Events Color Management
SHARP ALXXXX
Scanner events
ScarMenu SC1
Send to this application:
전 관련 Shap Button Manager P 37 편 Insging 또 Adobe Photoshop
T Disable device events
DK Cancel Apply

Click the "Scanner events" button and select "ScanMenu SC1" from the pull-down menu. Select "Sharp Button Manager P" in "Send to this application" and click "Apply".

G
Note

If other applications are shown, deselect the checkboxes for the other applications and leave only the Button Manager checkbox selected.

SHARP	<u> ?</u> ×
Generati Eventz Colos Management	
Scanner events	
ScanMenu SC1	
Send to this application:	
✓ n [®] Sharp Button Managar P I di Inaging Machine Photoshop	
Disable device events	
DK Cancel	Apply

5 Repeat step 4 to set "ScanMenu SC2" through "ScanMenu SC6".

Click the "Scanner events" and select "ScanMenu SC2" from the pull-down menu. Select "Sharp Button Manager P" in "Start this program" and click "Apply". Do the same for each ScanMenu through "ScanMenu SC6". When the settings have been completed, click the "OK" button to close the screen. When the settings have been completed in Windows, start the Button Manager. Adjust detailed settings and then scan an image from the unit. For the procedures for starting Button Manager and adjusting settings, see "Scan Button Destination Setting Dialog Box" (Next page).

Scan Button Destination Setting Dialog Box

After you have completed the Button Manager settings in Windows, configure the scan settings in Button Manager. To configure the scan settings in Button Manager, right click the (

For details on configuring the scan settings in Button Manager, see the online manual or the help file.

This is the corresponding setting in the Button Manager to automatically send image(s) in full color at 75 dpi to Sharpdesk using the operation panel "SC1" SCAN ((a)) key selection.

Show Version Help	
Settings	
Close	
が直	9:05 AM

Application Selection	• Shapdesk		
		File Formet TIFF	
Show TwAIN setting screep	when scanning		
Color Mode	Full Color	₩ Light.Source	
Edge	None	E Beverse	
Image Area	Lefter	Void Asea	
Repolution	75	×	
Color Matching	For CRT	*	

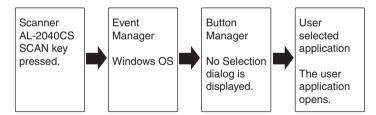
r As	
Note	

This dialog shows the SC1 event set to go directly to Button Manager. With the Button Manager set to send the image to Sharpdesk. (factory default setting) Sharpdesk will open after acquiring the image automatically.

Flow of the Button Manager setting

The Button Manager can directly handle an AL-2040CS device event and start your selected application according to the scan setting made on the AL-2040CS operation panel (SC1, SC2, SC3, SC4, SC5, SC6).

This will scan directly into your application from the device.



The settings for the Windows Event Manager for the SHARP AL-2040CS device allow the user to take advantage of the Sharp Button Manager to take control of events from Windows and send scanned images to any application that can be selected in Button Manager.

This can be done with the Windows OS showing the Event Manager selection dialog or directly into a selected application if the Button Manager is the only allowed handler for device events from the SHARP AL-2040CS.

This is done by changing the Windows device settings for the AL-2040CS in the Scanner and Camera device settings in the Control Panel.

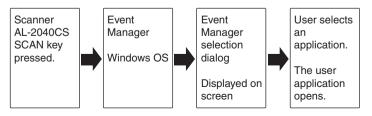


This is the Control Panel Properties dialog for "Scanners and Cameras".

The AL-2040CS is shown selected.

All About The Windows Event Manager and scanner events in Windows 98, Windows Me, Windows 2000 and Windows XP.

Windows Platforms provide a mechanism for software to handle external events for a scanner device like the SHARP AL-2040CS products. This mechanism is controlled by the device manager on a device basis. Applications that can handle events from a scanner/camera device register with the Windows Event Manager and shown as available in the registered applications. The path an event takes to get to the user's selected application depends upon the event settings for the device.



SHARP ?X
ScanMenu SC1
Select the program to launch for this action:
Sharp Button Manager P Sharp Button Manager P
Photoshop Photoshop
Always use this program for this action
OK Cancel

This is the Windows Event Manager Selection Dialog.

Shown are two applications registered to handle the scanner event from the AL-2040CS device.

Using the SCAN key to begin scanning

	ß
Ì	Note

- Scanning is not possible during a copy job.
- If the SCAN (
) key is pressed during a print job, the scan job will be stored.
- When scanning an original that has been placed in the SPF, only one original can be placed unless you are using Sharpdesk.



Press the SCAN (🝙) key.

The unit enters scan mode.



Place the original you wish to scan on the document glass/SPF. For the procedure for placing the original, see "ORIGINAL PLACEMENT" (p.47).

3 Press the right copy quantity key to display the number of the application that you wish to use for scanning.



The application numbers are initially as follows.

Application number	Application launched
SC1	Sharpdesk
SC2	E-mail
SC3	Fax
SC4	OCR
SC5	Microsoft Word
SC6	Filing

To check the settings, see "Scan Button Destination Setting Dialog Box" (p.38) and then open the settings window of the Button Manager.



Press the start (🖏) key.

Scanning will start and the scanned data will be transferred to the application.

G	

 If the following screen appears, select Button Manager and click "OK". Button Manager starts and the application associated with Button Manager starts. If you want only Button Manager to start in this case, set up Button Manager for use in Windows as explained in "Setting up the Button Manager" (p.36).

SHARP	?≍
ScanMenu SC1	
Select the program to laur	nch for this action:
Sharp Button Ma Sharp Button Ma	nager P nager P
Photoshop Photoshop	
Ú.	
Always use this program	m for this pation
Aways use inis progra	
	OK Cancel

 If step 4 is performed with the "Show TWAIN setting screen when scanning"

checkbox selected in the Scan Button Destination Setting Dialog Box (p.38), the TWAIN settings screen (p.43) will automatically appear. Check the settings, and then press the start (s) key again or click the "Scan" button in the TWAIN setting screen to start scanning. The scanned data will be transferred to the application.

Opening the scanner driver and scanning from your computer

Follow the steps below to open the scanner driver setup screen. As an example, this instruction is given using Sharpdesk as an image capture application.

¢
Note

- Scanning is not possible during a copy and print job.
- The method for starting the scanner driver differs depending on the type of application. Refer to the manual or the help file of your application.
- When using the scanner driver to scan an original that has been placed in the SPF. If you perform "preview" (see the online manual or the help file for the scanner driver), the original in the SPF will be output to the exit area after previewing. To scan the original after previewing, place the original in the SPF once again.

Using the SHARP TWAIN



Place the original(s) you wish to scan on the document alass/SPF.

For the procedure for placing the original, see "ORIGINAL PLACEMENT" (p.47).



After starting Sharpdesk, click the "File" menu and select "Select Scanner".





Select "SHARP MFP TWAIN P", and click the "Select" button.

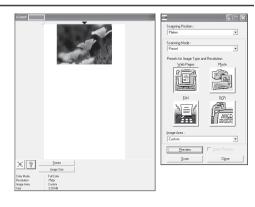


Note

If you use more than one scanning device, select the scanner you want to use through the application. The method for accessing the "Select Scanner" option, depends upon the application. For more information, see the online manual or the help file of your application.



Select "Acquire Image" from the "File" menu, or click the "Acquire" button (🛄) .



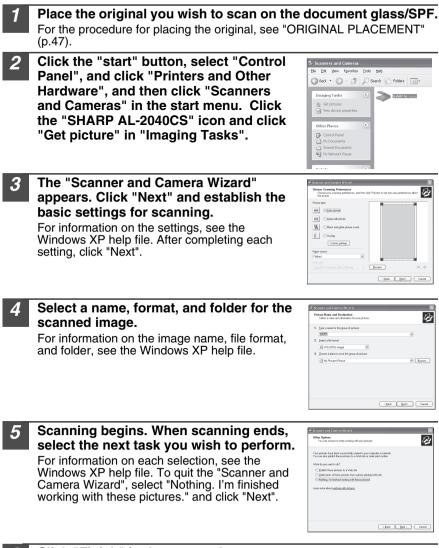
Set the configuration for scanning (refer to the online manual 5 and help file), and click the "Scan" button. Scan is started.

Scanning with the "Scanner and Camera Wizard" in Windows XP

Windows XP includes as a standard feature an image scanning function. The procedure for scanning with the "Scanner and Camera Wizard" is explained here.



To cancel scanning, click the "Cancel" button in the screen that is displayed.

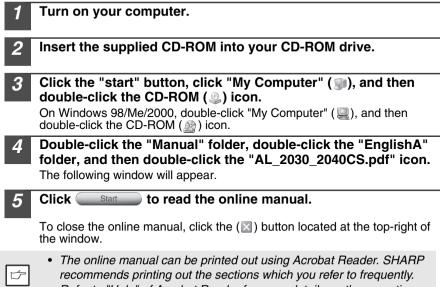


Click "Finish" in the screen that appears.

The "Scanner and Camera Wizard" closes and the scanned image is saved.

HOW TO USE THE ONLINE MANUAL

The online manual provides detailed instructions for operating the unit as a printer or scanner and a list of methods for dealing with printing or scanner problems. To access the online manual, your computer must have Acrobat Reader 6.0 or a later version.





 Refer to "Help" of Acrobat Reader for more details on the operation and function of Acrobat Reader.

VIEWING THE ONLINE MANUAL

The "Software CD-ROM" that accompanies the machine contains an online manual in PDF format. To view the manual in PDF format, Acrobat Reader or Adobe Reader of Adobe Systems Incorporated is required. If neither program is installed on your computer, the programs can be downloaded from the following URL:

http://www.adobe.com/

45



MAKING COPIES

This chapter explains basic and other copying functions.

The unit is equipped with a one-page memory buffer. This memory allows the unit to scan an original once only and make up to 99 copies. This feature improves workflow, reduces operation noise from the copier, and provides higher reliability by reducing wear and tear on the scanning mechanism.

COPY FLOW

1 Make sure that paper has been loaded in the paper tray (p.15) or multi-bypass tray (p.17), and check the paper size (p.14). If paper is not loaded, see page 15.

2 Place the original.

If you are using the document glass, see "Using the document glass" (p.47). If you are using the SPF, see "Using the SPF" (p.48).

When copying onto paper larger than 8-1/2" x 11" size, pull out the paper output tray extension.

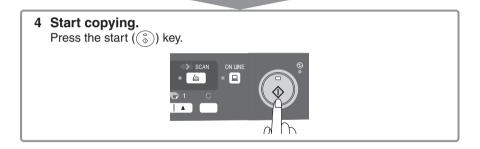


3 Select the copy settings.

- To set the number of copies, see page 49.
- To adjust the resolution and contrast settings, see page 49.
- To enlarge or reduce the copy, see page 51.
- To change the tray used, see page 51.

AL-2040CS

• To print on both sides of the paper, see page 52.





- If you start a print job while a copy job is in progress, the print job will begin when the copy job is completed.
- The scanning function cannot be used while a copy job is in progress. (AL-2040CS only)

About interrupt copying

If you press the start (s) key to begin a copy job while a print job using the paper tray or multi-bypass tray is in progress, the copy job will begin automatically after the print data in the unit's memory is printed (interrupt copying). When this is done, the print data remaining in the computer is not sent to the unit. When the copy job ends, press the clear key twice, or press the ONLINE key once to change the unit to the online state (p.33), or wait until the set auto clear time (p.55) elapses. The remaining print data will be sent to the unit and printing will resume.

* Interrupt copying during two-sided printing is not possible until the print job is finished. (AL-2040CS only)

ORIGINAL PLACEMENT

Using the document glass

- The document glass can read up to 8-1/2" x 14" original.
- Image loss 5/32" (4mm) can occur at the leading and trailing edges of the copies. Also image loss 11/64" (4.5mm) in total can occur along the other edges of the copies.
- When copying a book or an original which has been folded or a crumpled original, press down the SPF lightly. If the SPF is not securely closed, the copies may be striped or blurred.
- When using the document glass to scan an original, make sure that an original is not placed in the SPF.

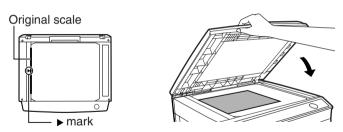


Moto

Open the SPF, and place the original.

Place an original face down on the document glass. Align it with the original scale and the centering (\triangleright) mark. Gently close the SPF.

After placing the original, be sure to close the SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner. In addition, toner may scatter inside the machine or the drum cartridge may suffer damage.



Using the SPF

The SPF is designed to hold up to 50 originals measuring from 5-1/2" x 8-1/2" to 8-1/2" x 14" and weighting from 14 lbs. to 23.9 lbs. ($52g/m^2$ to $90g/m^2$).



- Before feeding originals in the document feeder tray, be sure to remove any staples or paper clips from them.
- Before placing curled or wavy originals into the document feeder tray, be sure to flatten them. If not, original misfeeds may result.
- If the original is placed correctly in the SPF, the SPF indicator will light up. If the original is not placed correctly, the SPF indicator will not light. If the SPF is not closed correctly, the indicator will blink.
- Badly damaged originals may misfeed in the SPF. It is recommended that such originals be copied from the document glass.
- Special originals such as transparency film should not be fed through the SPF, but should be placed directly on the document glass.
- Image loss (max. 5/32" (4mm)) can occur at the leading and trailing edges of the copies. Also image loss (max. 11/64" (4.5mm) in total) can occur along the other edges of the copies. It can be 15/64" (6mm) (max.) at the trailing edge of the second copy of two-sided copying.
- To stop continuous copying using the SPF, press the clear key.
- Copying using one-sided to one-sided mode: Ensure that no indicator is lit among the original to copy indicators.

Make sure that no original is left on the document glass.

Adjust the original guides to the size of originals.



3 Set the originals face up in the document feeder tray.

Use the peep hole (see the illustration at right) to check the position of the original. There is an original top edge mark \blacktriangle in the peep hole. Align the top edge of the original with this mark.



SET THE COPY QUANTITY

Set the number of copies using the two copy quantity (,) keys when copying from the document glass or copying from SPF.



- Press the clear key to clear an entry if a mistake is made.
- A single copy can be made with the initial setting, i.e., when "0" is displayed.
- Press the right copy quantity key to set the unit digit from 0 to 9. This key will not change the tens digit.
- Press the left copy quantity key to set the tens digit from 1 to 9.



EXPOSURE ADJUSTMENT/PHOTO COPYING

Exposure adjustment

Copy density adjustment is not required for most originals in the automatic exposure mode. To adjust the copy density manually or to copy photographs, the exposure level can be adjusted in five steps manually.

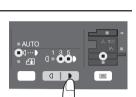


The copy resolution used for AUTO and MANUAL ((\cdots)) mode can be changed. (p.55)



Press the exposure mode selector key to select the MANUAL $(\bigcirc \cdots)$ mode or PHOTO (\bigcirc) mode.

2 Use the light (
 and dark (→) keys to adjust the exposure level. If exposure level 2 is selected, the two left-handmost indicators for that level will light up simultaneously. Also, if level 4 is selected, the two right-handmost indicators for that level will light up simultaneously.



|≡I

Automatic exposure adjustment

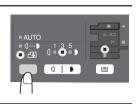


This automatic exposure level will remain in effect until you change it again by this procedure.

The automatic exposure level can be adjusted to suit your copying needs. This level is set for copying from the document glass and copying from the SPF respectively.

- When adjusting the automatic exposure level for copying from the SPF, place an original in the document feeder tray and make sure that the SPF indicator lights up. When adjusting the level for copying from the document glass, make sure that no original is left in the document feeder tray.
- 2

Press the exposure mode selector key to select the PHOTO ((____) mode.



3 Press and hold down the exposure mode selector key for approximately 5 seconds. The PHOTO ((_in)) indicator will go out and the AUTO indicator will begin to blink. One or two light and dark indicators corresponding to the automatic exposure level which has been selected will light up.





5 Press the exposure selector key. The AUTO indicator will stop blinking and light up steadily.

REDUCTION/ENLARGEMENT/ZOOM

Three preset reduction ratios and two enlargement ratios can be selected. The zoom function enables copy ratio selection from 25% to 400% in 1% increments. (When the SPF is being used, the zoom copy ratio range is 50% to 200%.)



Set the original and check the paper size.



Use the copy ratio selector key and/or ZOOM ((),) keys to select the desired copy ratio.



- To verify a zoom setting without changing the zoom ratio, press and hold down the copy ratio display (%) key. When the key is released, the display will return to the copy quantity display.
- To reset the ratio to 100%, press the copy ratio selector key repeatedly until the 100% indicator lights up.



Set the reduction/enlargement ratio.

Note

To decrease or increase the zoom ratio rapidly, press and hold down the ZOOM (()) or ()) key. However the value will stop at the preset reduction or enlargement ratios. To move beyond these ratios, release the key and then press and hold it down again.

To select a preset copy ratio:

Preset reduction and enlargement ratios are: 50%, 64%, 78%, 129%, and 200%.

To select a zoom ratio:

When a ZOOM (region or region) key is pressed, the ZOOM indicator will light up and the zoom ratio will be displayed in the display.



III

SELECTING THE PAPER TRAY

Press the tray select (\blacksquare) key.

Each time you press the tray select () key, the location indicated by the paper feed location indicator changes in the following order: paper tray 1, paper tray 2*, multi-bypass tray.



* AL-2040CS only



This chapter describes the special functions of this unit. Use these functions as needed.

TWO SIDED COPYING (AL-2040CS only)

When copying from one-sided originals to two-sided copies, copying orientation can be selected between Turn on Long Edge and Turn on Short Edge.



When making two-sided copies, the multi-bypass tray cannot be used.









Turn on Long Edge

Turn on Short Edge

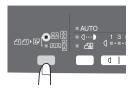
Making two-sided copies

Place the original(s) on the document glass or in the SPF. (see "ORIGINAL PLACEMENT" (p.47).

Select two-sided copy mode.

When copying in a one-sided to two-sided mode:

Use the original to copy key to select the desired one-sided to two-sided copying mode (Turn on Long Edge or Turn on Short Edge). See the illustrations on page 52.



3 Select the copy settings. See "SET THE COPY QUANTITY" (p.49), "EXPOSURE ADJUSTMENT/PHOTO COPYING" (p.49), and "REDUCTION/ENLARGEMENT/ZOOM" (p.51).

Using the document glass

- Press the start ([®]) key. The original is scanned into the unit's memory and the number of the copy quantity blinks in the display.
- Place the original that you wish to copy onto the rear side of the paper, and press the start (③) key again. Copying begins.

Using the SPF

Press the start (③) key. Copying begins in the selected two-sided copy mode.

DESCRIPTION OF OTHER SPECIAL FUNCTIONS

Toner save mode

Reduces toner consumption by approximately 10%.

Power save modes

The unit has two power save modes of operation: preheat mode and auto power shut-off mode.

Preheat mode

When the unit enters the preheat mode, the power save (O) indicator will light up and other indicators will remain on or off as before. In this condition, the fuser in the unit is maintained at a lower heat level, thereby saving power. To copy from the preheat mode, make desired copier selections and press the start ((O)) key using the normal copying procedure.

Auto power shut-off mode

When the unit enters the auto power shut-off mode, the power save (O) indicator will light up and other indicators except the ONLINE indicator will go out. The auto power shut-off mode saves more power than the preheat mode but requires a longer time before starting copying. To copy from the auto power shut-off mode, press the start ((O)) key. Then make desired copier selections and press the start (O) key using the normal copying procedure.

Auto clear

The unit returns to the initial settings a preset amount of time after the end of job. This preset amount of time (auto clear time) can be changed.

Resolution of AUTO & MANUAL mode

You can set the copy resolution used for AUTO and MANUAL $(\bigcirc \cdots)$ exposure mode.

Prevention of OC copies when the SPF is up function

When enabled, this function may help prevent wasteful use of toner that occurs when the OC cover is not completely closed.

If the start (③) key is pressed when the OC cover is not completely closed, " will appear in the display and copying may not take place. If copying does not take place, copying can be performed by pressing the start (③) key again, however, the scan size set in "Copy effective paper width setting function" (program numbers 25, 26, 27) will be used.

If the OC cover is completely closed after " **3P** " appears, copying will take place at the normal size.

TONER SAVE MODE

	1
I	

Press the exposure mode selector key to select the MANUAL $(\bigcirc \cdots)$ mode.



Press and hold down the exposure mode selector key for approximately 5 seconds. The MANUAL (□···•) indicator will go out and the PHOTO ((-in)) indicator will begin to blink. The light and dark indicator marked "5" will light up, indicating the standard toner mode is active.



3 To enter the toner save mode, press the light () key. The light and dark indicator marked "1" will light up, indicating the toner save mode is selected.



4

Press the exposure mode selector key. The PHOTO ((in)) indicator will stop blinking and light up steadily. The light and dark indicator marked "3" will light up. The toner save mode is now active.



To return to the standard mode, repeat the procedure but use the dark (••) key to select exposure level "5" in step 3.

USER PROGRAMS

The user programs allow the parameters of certain functions to be set, changed, or canceled as desired.

Setting the user programs

- **1** Press and hold down the light () key simultaneously for more than 5 seconds until all the alarm indicators (), \aleph_V , \therefore) blink and " ••• " appears in the display.
- 2 Use the left copy quantity (▲) key to select a user program number (For the user program numbers, see the following table.). The selected number will blink in the left side of the display.
- **3** Press the start (^(®)) key. The entered program number will be steadily lit and the currently selected parameter number for the program will blink on the right side of the display.
- **4** Select the desired parameter using the right copy quantity () key. The entered parameter number will blink on the right of the display.

Program No.	Mode	Parameters
1	Auto clear time	$\begin{array}{c} 1 \rightarrow 10 \; \text{sec., } 2 \rightarrow 30 \; \text{sec., } ^*\!\! 3 \rightarrow 60 \; \text{sec.,} \\ 4 \rightarrow 90 \; \text{sec., } 5 \rightarrow 120 \; \text{sec., } 6 \rightarrow \text{OFF} \end{array}$
2	Preheat mode	
3	Auto power shut- off mode	*1 \rightarrow ON, 2 \rightarrow OFF
4	Auto power shut- off timer	$ ^{*1} \rightarrow 5 \text{ min., } 2 \rightarrow 30 \text{min., } 3 \rightarrow 60 \text{ min.,} $

Program No.		
6	SPF automatic original discharge time	$\begin{array}{l} 1 \rightarrow 5 \text{ min., } *2 \rightarrow 30 \text{ min.,} \\ 3 \rightarrow 60 \text{ min., } 4 \rightarrow 120 \text{ min.,} \\ 5 \rightarrow 240 \text{ min., } 6 \rightarrow \text{OFF} \end{array}$
10	Resolution of AUTO & MANUAL mode	*1 $ ightarrow$ 300dpi, 2 $ ightarrow$ 600dpi
21	Reset factory	$1 \rightarrow \text{YES}, *2 \rightarrow \text{NO}$
24	Prevention of OC copies when the SPF is up function	*1 \rightarrow ON, 2 \rightarrow OFF
25	Copy effective paper width setting function (Bypass tray)	*1 \rightarrow Large (LETTER/A4 width), 2 \rightarrow Small (INVOICE/B5R width)
26	Copy effective paper width setting function (Tray 1)	*1 \rightarrow Large (LETTER/A4 width), 2 \rightarrow Small (INVOICE/B5R width)
27	Copy effective paper width setting function (Tray 2) (AL-2040CS only)	*1 \rightarrow Large (LETTER/A4 width), 2 \rightarrow Small (INVOICE/B5R width)
28	Selection of copy start state (Polygon rotation on/off)	*1 \rightarrow ON, 2 \rightarrow OFF
29	Fusing temperature setting when the bypass tray is used	*1 \rightarrow Low, 2 \rightarrow High

* Factory default settings are indicated with an asterisk (*).

Press the start ((3)) key. The right-hand number in the display will be steadily lit and the entered value will be stored.

	b	
1	Note	

6

To change the setting or to set another mode, press the clear key. The unit will return to step 2.

Press the light () key to return to the normal copy mode.

DISPLAYING TOTAL NUMBER OF COPIES

Use the following procedure to display the total number of copies.

Press and hold down the clear key for approximately 5 seconds. The total number of copies will appear in two steps, each with three digits. Example: Total number of copies is 1,234.





MAINTENANCE

This chapter describes how to replace the TD cartridge and drum cartridge and how to clean the unit.



Be sure to use only genuine SHARP parts and supplies.

TD CARTRIDGE REPLACEMENT

The TD cartridge replacement required (::.) indicator will light up when toner is needed. For more information on purchasing the TD cartridge, see "ABOUT SUPPLIES AND OPTIONS" (p.71). If copying is continued while the indicator is lit, copies will gradually become lighter until the unit stops and the indicator begins blinking. Replace the old TD cartridge by following the procedure below.

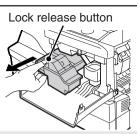


- After the unit stops, it may be possible to make a few more copies by taking the TD cartridge out of the unit, shaking it horizontally, then reinstalling it. If copying is not possible after this operation, replace the TD cartridge.
- During long copy run of a dark original, the TD cartridge replacement required (∴) indicator may light up, the start (⊗) indicator blink, and the unit stops, even though toner is left. The unit will feed toner up to 2 minutes and then the start (⊗) indicator will light up. Press the start (⊗) key to restart copying.

1 Open the multi-bypass tray, side cover, and front cover, in that order.

To open the multi-bypass tray, see "The multi-bypass tray" (p.17). To open the side cover and front cover, see "INSTALLING THE TD CARTRIDGE" (p.10).

2 Gently pull the TD cartridge out while pressing the lock release button.





In order to help preserve the global environment, we recycle used TD cartridges. Please read "COPIER TONER CARTRIDGE RECYCLING PROGRAM", which is enclosed in the new toner cartridge package.

Install a new TD cartridge. To install the new cartridge, see "INSTALLING THE TD CARTRIDGE" (p.10).

Close the front cover and then the side cover by pressing the round projections near the side cover open button. The indicator (::) will go out and the start (:) indicator will light up.



When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

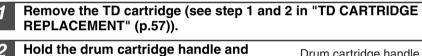
DRUM CARTRIDGE REPLACEMENT

The useful life of the drum cartridge is approximately 18,000 copies*. When the internal counter reaches approximately 17,000 copies, the drum replacement required (()) indicator will light up indicating that replacement of the drum cartridge will be needed soon. For more information on purchasing the drum cartridge, see "ABOUT SUPPLIES AND OPTIONS" (p.71). When the indicator begins to blink, the unit will stop operating until the cartridge is replaced. Replace the drum cartridge at this time.

*Based on copying onto letter size paper at 5% toned area.



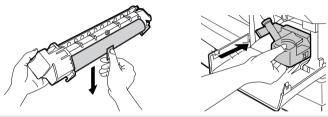
Do not remove the protective cover on the drum portion (black paper) of a new drum cartridge before use. The cover protects the drum against external light.



2 Hold the drum cartridge handle and gently pull the cartridge out. Dispose of the old drum cartridge in accordance with local regulations.



Remove the new drum cartridge from the protective bag and remove the protective cover from the cartridge. Then gently install the new drum cartridge.



Do not touch the surface of the drum (green portion) of the cartridge. Doing so may cause smudges on the copies.

Note

Gently install the TD cartridge. To install the TD cartridge, see step 5 in "INSTALLING THE TD CARTRIDGE" (p.11).

Close the front cover and then the side cover by pressing the round projections near the side cover open button. The drum replacement required (()) indicator will go out and the start ()) indicator will light up.



When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

CLEANING THE UNIT

Proper care is essential in order to get clean, sharp copies. Be sure to take a few minutes to regularly clean the unit.



Do not spray flammable cleaner gas. Gas from the spray may come in contact with the internal electrical components or high-temperature parts of the fusing unit, creating a risk of fire or electrical shock.



- Before cleaning, be sure to turn the power switch off and remove the power cord from the outlet.
- Do not use thinner, benzene or other volatile cleaning agents. Doing so may cause deformation, discoloration, deterioration or malfunction.

Cabinet

Wipe the cabinet with a soft, clean cloth.

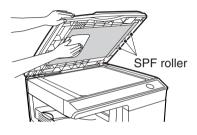
Document glass and the back side of the SPF

Stains on the document glass, SPF scanning window or SPF roller will also be copied. Wipe the document glass, SPF scanning window and SPF roller with a soft, clean cloth. If necessary, dampen the cloth with a glass cleaner.

Document glass/SPF scanning window

SPF





Transfer charger

If copies start becoming streaky or blotchy, the transfer charger may be dirty. Clean the charger using the following procedure.



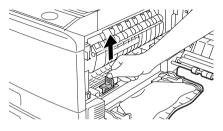
Turn the power switch off. (p.13)

Ensure that the multi-bypass tray is open and then open the side cover while pressing the side cover open button.

3 Take the charger cleaner out by holding the tab. Set the charger cleaner onto the right end of the transfer charger, gently slide the cleaner to the left end, and then remove it. Repeat this operation two or three times.

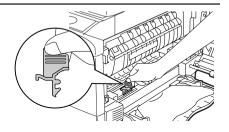


Slide the charger cleaner from the right end to the left end along the groove of the transfer charger. If the cleaner is stopped on the way, smudges on copies may occur.





4 Return the charger cleaner to its original position. Close the side cover by pressing the round projections near the side cover open button.



Turn the power switch on. (p.12)

2)

This chapter describes misfeed removal and troubleshooting.

For problems with the printer function or the scanner function, see the online manual or the Help file for the printer/scanner driver.

TROUBLESHOOTING

If any problem occurs, check the list below before contacting our Technical Assistance Department.

Problem	Possible cause	Solution	Page
	Unit plugged in?	Plug the unit into a grounded outlet.	12
Unit does not	Power switch on?	Turn the power switch on.	12
operate.	Side cover closed securely?	Gently close the side cover.	11
opolato.	Front cover closed?	Gently close the front cover and then close the side cover.	11
Blank copies	Is the original placed face down on the document glass or face up in the SPF?	Place the original face down on the document glass or face up in the SPF.	47, 48
	Is the scan head locking switch locked?	Unlock the scan head locking switch.	9
	Is original image too dark or too light?	Adjust the exposure manually.	49
Copies are too dark or too light.	Is the unit in the automatic exposure mode?	Adjust the automatic exposure level.	50
	Is the unit in the photo exposure mode?	Cancel the photo exposure mode.	49
Dust, dirt,	Document glass or SPF dirty?	Clean regularly.	59
smudges appear on copies.	Original smudged or blotchy?	Use a clean original.	_
Striped copies	Is transfer charger clean?	Clean the transfer charger.	60
	Non-standard paper used?	Use standard paper. If using special papers, feed the paper through the multi-bypass tray.	14
Paper misfeeds	Paper curled or damp?	Store paper flat in the wrapper in a dry location.	-
frequently.	Pieces of paper inside unit?	Remove all pieces of misfed paper.	63
	Paper guides in the paper tray not set properly?	Set the guides properly depending on the paper size.	15, 18
	Too much paper in the paper tray or multi-bypass tray?	Remove excessive paper from the tray.	15, 17
	Is the paper too heavy?	Use paper within the specified range.	14
Images rub off the	The fusing temperature is not appropriate.	In the user programs, set "Fusing temperature setting when the bypass tray is used" (program 29) to "2 (High)".	56
copy easily.	Paper damp?	Replace with dry paper. If the unit is not used for long time, remove the paper from the paper tray and store it in its wrapper in a dry location.	72
Printing is not uniform between the edges of the paper and the center.	The fusing temperature is not appropriate.	In the user programs, set "Fusing temperature setting when the bypass tray is used" (program 29) to "1 (Low)".	56

8

STATUS INDICATORS

When the following indicators light up or blink on the operation panel or the following alphanumeric codes appear in the display, solve the problem immediately referring to both the table below and the relevant page.



Be sure to use only genuine SHARP parts and supplies.

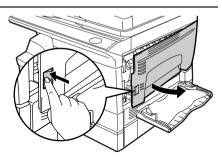
Indication			Cause and remedy	Page
	Drum replacement required indicator	Steadily lit	Replacement of drum cartridge will be needed soon. Prepare a new cartridge.	71
	required indicator		Drum cartridge must be replaced. Replace it with a new one.	58
	TD cartridge replacement	Steadily lit	Replacement of TD cartridge will be needed soon. Prepare a new cartridge.	
•••	required indicator	Blinking	TD cartridge must be replaced. Replace it with a new one.	
√8	Misfeed indicator	Blinking	A misfeed has occurred. Remove the misfed paper referring to the description of "MISFEED REMOVAL".	63
	SPF misfeed	Steadily lit	When the document feeder cover is open.	-
•	indicator	Blinking	An original misfeed has occurred in the SPF. Remove the misfed originals referring to the description of "E: Misfeed in the SPF".	67
	Power save indicate	ric	The unit is in the preheat mode. Press any key to cancel the preheat mode.	54
Ower save indicator is Steadily lit.		115	The unit is in the auto power shut-off mode. Press the start (③) key to cancel the auto power shut-off mode.	54
	 The paper tray indicator is blinking. 		The paper tray is not pushed in correctly, or there is no paper in the tray. Push the tray all the way in or load paper in the tray.	-
	"CH" is blinking in th	e display.	The TD cartridge is not installed. Check if the cartridge is installed.	57
EH	CH" is steadily lit in the display.		Side cover is open. Close the side cover securely by pressing the round projections near the side cover open button.	-
0P	² "OP" is blinking in the display.		This appears if it is detected that the OC cover is open when copying is started. Completely close the OC cover, or press the start (③) key again. Depending on the color and the density of the original, "OP" blinking may appear even when the OC cover is closed. In such a case, press the start key again to make a copy.	_
	P" is blinking in the display.		The paper tray or multi-bypass tray is empty. Load paper.	15, 17
- P			A misfeed has occurred in the paper tray or multi-bypass tray. Remove the misfed paper.	63
上	A letter and a number appear alternately.		The scan head locking switch is locked. Unlock the scan head locking switch.	9
」 し し う ひ つ こ し つ つ つ つ つ つ つ			The unit will not function. Turn the power switch off, remove the power cord from the outlet, and contact our Technical Assistance Department at 1-(630)378-3590 in the USA.	-

MISFEED REMOVAL

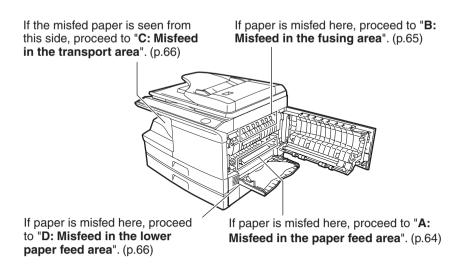
When the misfeed (\$) indicator blinks or **P** blinks in the display, the unit will stop because of a misfeed. When the SPF misfeeds an original sheet, the unit will stop and the SPF misfeed (\lhd) indicator will blink, while the misfeed (\$) indicator will remain off. For a misfeed of originals in the SPF, see "E: Misfeed in the SPF" (p.67).



Open the multi-bypass tray, and then open the side cover.



2 Check the misfeed location. Remove the misfed paper following the instructions for each location in the illustration below. If the misfeed (8%) indicator blinks, proceed to "A: Misfeed in the paper feed area" (p.64).



A: Misfeed in the paper feed area

Gently remove the misfed paper from the paper feed area as shown in the illustration. When the misfeed (8/v) indicator blinks, and the misfed paper is not seen from the paper feed area, pull out the paper tray and remove the misfed paper. If the paper cannot be removed, proceed to "B: Misfeed in the fusing area".



The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or other injury.



- Do not touch the surface (green portion) of the drum cartridge when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
- If the paper has been fed through the multi-bypass tray, do not remove the misfed paper through the multi-bypass tray. Toner on the paper may stain the paper transport area, resulting in smudges on copies.

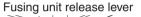


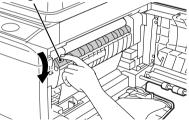
2 Close the side cover by pressing the round projections near the side cover open button. The misfeed (8∿) indicator will go out and the start ([®]) indicator will light up.

B: Misfeed in the fusing area



Lower the fusing unit release lever.

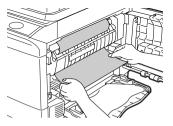




Gently remove the misfed paper from under the fusing unit as shown in the illustration. If the paper cannot be removed, proceed to "C: Misfeed in the transport area".



The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or other injury.





- Do not touch the surface (green portion) of the drum cartridge when removing the misfed paper. Doing so may cause smudges on copies.
- Do not remove the misfed paper from above the fusing unit. Unfixed toner on the paper may stain the paper transport area, resulting in smudges on copies.

3

Raise the fusing unit release lever and then close the side cover by pressing the round projections near the side cover open button. The misfeed (\$) indicator will go out and the start ((o)) indicator will light up.

8

C: Misfeed in the transport area

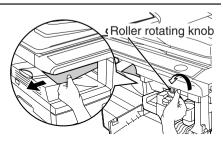
Lower the fusing unit release lever.

See "B: Misfeed in the fusing area" (p.65).

Open the front cover.

To open the front cover, see "INSTALLING THE TD CARTRIDGE" (p.10).

3 Rotate the roller rotating knob in the direction of the arrow and gently remove the misfed paper from the exit area.



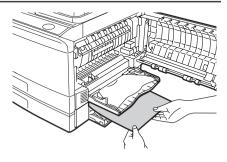
4 Raise the fusing unit release lever, close the front cover and then close the side cover by pressing the round projections near the side cover open button. The misfeed $(8^{1/2})$ indicator will go out and the start $(3^{1/2})$ indicator will light up.



When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

D: Misfeed in the lower paper feed area

1 Open the lower side cover (under the multi-bypass tray) and remove the misfed paper. If the misfeed (8\/\) indicator blinks and the misfed paper is not seen from the area of the lower side cover, pull out the lower paper tray and remove the misfed paper. Then close the lower paper tray.



Close the lower side cover.

Close the side cover by pressing the round projections near the side cover open button. The misfeed (8/y) indicator will go out and the start ([®]) indicator will light up.

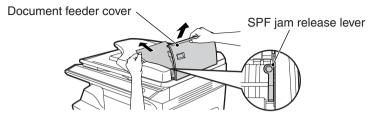
E: Misfeed in the SPF

An original misfeed may occur at one of three locations: if the misfed original is seen from the document feeder tray, (A) in the document feeder tray; if the misfed original is not seen from the document feeder tray, (B) in the exit area or (C) under the document feeder cover. Remove the misfed original following the instructions for each location.



After removing the jammed paper, be sure to press the clear key to clear the misfeed error state.

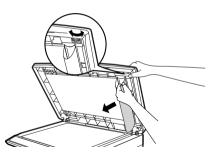
(A) Open the document feeder cover and pull the misfed original out from the document feeder tray. Press the SPF jam release lever (see below) while you remove the original. Close the document feeder cover. Open and close the SPF to clear the SPF misfeed (<) indicator. If the misfed original cannot be easily removed, proceed to (C).



(B) Open the SPF and rotate the roller to remove the misfed original from the exit area. If the misfed original cannot be easily removed, proceed to (C).



(C) If the original does not move easily into the exit area, remove it in the direction of the arrow while rotating the knob.



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remove the misfeed before displaying the number of originals to be returned. For the misfeed removal procedure, see "MISFEED

The following procedure omits removal of the misfeed. Be sure to

IF AN ORIGINAL MISEFED OCCURS WHILE USING

If a misfeed occurs in the machine when the SPF is used, the SPF will automatically stop scanning. Manually remove the misfed original. You can check the number of originals that must be returned to the document feeder tray in the display on the operation panel. Follow the steps below to display the number of originals to be

When an original misfeed occurs, the SPF stops and the ZOOM indicator blinks.

The remaining number of sets will blink in the display.

Note REMOVAL" (p.63).

been scanned from the document feeder trav.

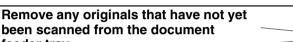
Press the copy ratio display (%) key.

The originals that were being scanned in the SPF will be discharged and the number of original sheets to be returned will blink in the display.

Place the displayed number of original sheets back in the document feeder trav together with the original sheets removed in step 2.

sheets to be returned

If "SPF automatic original discharge time" is enabled in the user programs, the originals in the SPF will be automatically discharged after the set time elapses. ("USER PROGRAMS" (p.55))





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1 0

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A |









3

Note

returned

THF SPF



APPENDIX

SPECIFICATIONS

		AL-2030	AL-2040CS		
Туре		Digital multifunctional system, des	k-top type		
Copy / printer system		Dry, electrostatic transfer			
Originals		Sheets, bound documents			
Printer fund	tion	Available - Cable required (USB only)Available - Cable required (USB or LAN)			
Scanner fur	nction	-	Available - Cable required (USB only)		
Paper tray		250 sheets x 1 250 sheets x 2			
Multi-bypas	s tray	50 sheets			
Paper output	ut tray	200 sheets * ¹			
SPF		SPF			
Original sizes	Document glass/SPF	Max. 8-1/2" x 14"			
Original feed	Document glass	1 sheet			
leeu	SPF	Up to 50 sheets			
Copy / print	ing size	3-1/2" x 5-1/2" to 8-1/2" x 14" * ²			
Image loss		Max. 5/32" (4mm) * ³ Max. 11/64" (4.5mm) * ⁴			
Copy speed		20 pages/min. (8-1/2" X 11")			
Print speed		16 pages/min. (8-1/2" X 11")			
Continuous	copying	Max. 99 pages subtractive counter			
First-copy t (Approxima		8.0 seconds (When user program 24 is set to OFF) 10.7 seconds (When user program 24 is set to ON) (paper: 8-1/2" x 11" (A4), exposure mode: AUTO, copy ratio: 100%)			
Copy ratio		Document glass: Variable: 25% to 400% in 1% increments (total 376 steps) Fixed: 50%, 64%, 78%, 100%, 129%, 200% SPF: Variable: 50% to 200% in 1% increments (total 151 steps) Fixed: 50%, 64%, 78%, 100%, 129%, 200%			
Exposure system	Document glass	Moving optical source, slit exposu automatic exposure	al source, slit exposure (stationary platen) with bosure		
SPF		Moving original			
Fusing system		Heat rollers			
Development system		Magnetic brush development			
Light source		Cold cathode fluorescent lamp			
Decelution	Copier	600 x 300dpi (Auto/Manual mode) 600 x 600dpi (Photo mode)			
Resolution	Printer	600dpi			
	Scanner	- 600 x 1200dpi			
Gradation	Scan	256 levels			
	Output	2 levels			

9

		AL-2030	AL-2040CS	
Bit depth		1 bit or 8 bit/pixel		
Sensor		Color CCD		
Scanning s	peed	Max. 2.88ms/line		
Memory		8 MB	16 MB	
Power supp	oly	120V, 60Hz, 8.0A	·	
Power cons	umption	Max. 1.0kW		
Overall	Width	31-9/16" (802mm)	31-9/16" (802mm)	
dimensions	Depth	17-33/64" (445mm)	17-33/64" (445mm)	
Weight (Approximately) * ⁸		37.04 lbs. (16.8kg)	44.97 lbs. (20.4kg)	
Unit	Width	20-25/64" (518mm)	20-25/64" (518mm)	
dimensions	Depth	17-33/64" (445mm)	17-33/64" (445mm)	
	Height	14-3/32" (358mm)	17-33/64" (445mm)	
Operating o	onditions	Temperature: 50°F to 86°F (10°C to 30°C) Humidity: 20% to 85%		
Emulation		SHARP GDI		
Interface po	ort	USB interface (USB 2.0 Full Speed)	USB interface (USB 2.0 Full Speed) / LAN interface (10 Base-T)	
Noise level		Sound power level LwA Copying mode: 6.2B Standby mode: 3.2B Sound pressure level LpA (reference) (Bystander positions) Copying mode: 48dB(A) Standby mode: 16dB(A) Sound pressure level LpA (reference) (Operator position) Copying mode: 52dB(A) Standby mode: 16dB(A) Noise emission measurement in accordance with ISO7779.		
Emission concentration (measurement according to RAL-UZ 62: Edition Jan. 2002)		Ozone:0.02 mg/m ³ or less Dust:0.075 mg/m ³ or less Styrene:0.07 mg/m ³ or less		

*1 When standard 8-1/2" x 11" (A4) paper is used under the operating conditions.

- *2 Feed paper lengthwise only.
- *3 Leading and trailing edges.
- *4 Along the other edges in totals.
- *5 When making multiple duplex copies, the copy speed will vary based on the environment conditions.
- *6 Print speed during printing of the second sheet and following sheets when using 8-1/2" x 11" (A4) plain paper in the tray 1 and performing continuous one-sided printing of the same page.
- *7 The first-copy time is measured after the power save indicator turns off following power on, using the document glass with the polygon rotating in the copy ready state and "Selection of copy start state" set to ON in the user programs (8-1/2" x 11" (A4), paper fed from paper tray). The first-copy time may vary depending on machine operating conditions and ambient conditions such as temperature.
- *8 Not including TD and drum cartridges.



As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

ABOUT SUPPLIES AND OPTIONS

When ordering supplies, please use the correct part numbers as listed below.



Be sure to use only genuine SHARP parts and supplies.



For best copying results, be sure to use only SHARP Genuine Supplies which are designed, engineered, and tested to maximize the life and performance of SHARP copiers. Look for the Genuine Supplies label on the toner package.

Supply list

Supply	Part number	Usable life
TD cartridge	AL-110TD	Approx. 4,000 sheets *
Drum cartridge	AL-100DR	Approx. 18,000 sheets

* Based on copying onto letter size paper at 5% toned area (The life of the TD cartridge which has been included in the unit at the factory is approximately 2,000 sheets.)

Interface cable

Please purchase the appropriate cable for your computer.

USB interface cable

Use a shielded cable.

LAN interface cable (AL-2040CS only)

Use a shielded type cable.

MOVING AND STORING THE UNIT

Moving instructions

When moving the unit, follow the procedure below.



When moving this unit, be sure to remove the TD cartridge in advance.

1	Turn the power switch off and remove the power cord from the outlet.
2	Open the side cover and front cover, in that order. Remove the TD cartridge and close the front cover and side cover, in that order.
	To open and close the side cover and front cover, and to remove the TD cartridge, see "TD CARTRIDGE REPLACEMENT" (p.57).
3	Raise the handle of the paper tray and pull the paper tray out until it stops.
4	Push the center of the pressure plate down until it locks in place and lock the plate using the pressure plate lock which has been stored in the front of the paper tray.
5	Push the paper tray back into the unit.
6	Lock the scan head locking switch (p.9).
	When shinning the unit, the scan head locking switch must be locked to

prevent shipping damage.



ß

Close the multi-bypass tray and the paper output tray extension, and attach the packing materials and tape which were removed during installation of the unit. See "PREPARING THE UNIT FOR INSTALLATION" (p.8).



Pack the unit into the carton. See "CHECKING PACKED COMPONENTS AND ACCESSORIES" (p.8).

Proper storage

Store the supplies in a location that is:

- clean and dry,
- at a stable temperature,
- not exposed to direct sunlight

Store paper in the wrapper and lying flat.

• Paper stored out of the wrapper or in packages standing on end may curl or get damp, resulting in paper misfeeds.

IMPORTANT SERVICE INFORMATION (U.S.A. only)

If a Problem Occurs

Most operational questions can be answered by referring to the Operation Manual or Online Manual. Also, for your convenience, you will find answers to frequently asked questions on our website at <u>www.sharpusa.com</u>. You can also e-mail your service question to

www.digitalcopiersupport@sharpsec.com. Should you require further assistance, call Sharp at 1-630-378-3590. A Customer Relations Specialist will assist you. Before your call, please be ready to provide the model number of your Product, Serial Number, Date of Purchase, description of the problem, and a valid Credit Card Number (should it be required).

How Warranty Repair Service is Obtained

Our Customer Relations Specialists at 1-630- 378-3590 will explain how to obtain warranty repair service. **Please be sure to retain the original packaging materials in order to facilitate shipment.** The shipment of the defective unit will be at your expense; please be sure it is insured and packaged securely. Upon repair of your unit, Sharp will promptly return it to you at any U.S. location.

What You Must Do

Your Product is designed to perform with a minimum amount of user maintenance. However, you are responsible for the required user maintenance described in the Operation Manual. This requires user maintenance including replacement of the TD cartridge and drum cartridge, cleaning of the unit and transfer charger, removal of dust and foreign matter, clearing of paper misfeeds, and proper routine and preventive maintenance.

Service After Expiration of Warranty Coverage

Should you require service repair after warranty coverage has expired, contact Sharp at 1-630-378-3590 for information.

END-USER LIMITED WARRANTY (Valid in U.S.A. only)

SHARP ELECTRONICS CORPORATION warrants to the first end-user purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

To the extent permitted by applicable state law, the warranties set forth herein are in lieu of, and exclusive of, all other warranties, express or implied. Specifically, ALL OTHER WARRANTIES OTHER THAN THOSE SET FORTH ABOVE ARE EXCLUDED. ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. If, under applicable state law, implied warranties may not validly be disclaimed or excluded, the duration of such implied warranties is limited to the period(s) from the date of purchase set forth below.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow limits on warranties or on remedies for breach in certain transactions; in such states, the limits herein may not apply.

Model Specific Section

Your Product Model Number & Description:	AL-2030/AL-2040CS Digital Multifunctional System (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year on parts and one (1) year on labor from date of purchase, except for the toner/developer cartridge and drum cartridge supplied with the Product, which are warranted for a period of fifteen (15) days from date of purchase. Disk media supplied with the Product is warranted for replacement only and limited to ninety (90) days from date of purchase.
Additional Item(s) Excluded from	The warranty does not apply to defects or damage resulting
<u>Warranty Coverage (if any):</u>	from improper or inadequate maintenance by the purchaser (see Operation Manual) or the use of non-genuine Sharp toner/developer and drum cartridges.
Where to Obtain Service:	Service is available in the United States from Sharp.
<u>What to do to Obtain Service:</u>	Call Sharp at 1-630-378-3590 to obtain a Return Authorization Number and shipping instructions. A technician will work with you on the phone and verify that your Product needs service. Be sure to have Proof of Purchase available.



Congratulations on your SHARP copier purchase. Call **1-877-RU-SHARP** (1-877-787-4277) for more information or to order PROTECTION PLANS, SUPPLIES, or ACCESSORIES.

THE SHARP PROTECTION PLAN:

By purchasing an extended service plan from SHARP today, you can protect your investment after the factory warranty has expired. Choose from a one, two, or three year warranty extension and you will receive:

- Professional service from SHARP trained and authorized technicians
- All labor and parts required to complete repair; no deductible or hidden charges
- Transferability of coverage
- Peace of mind knowing that your investment is protected by a SHARP extended warranty.

Call 1-877-RU-SHARP (1-877-787-4277) for more information or to order PROTECTION PLANS, SUPPLIES, or ACCESSORIES.

To register your product and purchase accessories or supplies, you may also visit us at **www.sharpusa.com**.

*Available in U.S. and its territories



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Date Revised : Mar . 1. 2007 Date Issued : Sep . 1. 2003 MSDS No. F-01231

PRODUC	T AND COM	PANY IDENTIFI	CATION	
Product N	ame	: AL-1651CS	/AL-1661CS/AL-1631/AL-1641CS/AL-164	2CS/AL-1217D
		AL-1457D/F	O-DC550/AL-1655CS/	
		FO-55ND/A	L-100TD/AL-110TD/AL-100TDN(Black To	ner)
Supplier l	dentification	: Sharp Corpor	ation	
		22-22 Nagaike	e-cho, Abeno-ku, Osaka, Japan	
Local	suppliers are		ase contact the nearest supplier for addition	onal information.
	Area	(Country)	(Name and Telephone	Number)
		U.S.A.	Sharp Electronics Corporation	,
			Sharp Plaza, Mahwah, NJ	
	Nanth		Telephone number for information	: 1-800-237-4277
	North		Emergency telephone number	: 1-800-255-3924
	America	Canada	Sharp Electronics of Canada Ltd.	
			Telephone number for information	: 905-890-2100
			Emergency telephone number	: 1-800-255-3924
		Australia	Sharp Corporation of Australia PTY. Ltd	1.
	Oceania		No1 Huntingwood Drive Huntingwood	Blacktown N.S.W.
			Telephone number for information	: 1300-13-50-22
		Germany	Sharp Electronics (Europe) GMBH	
			Sonninstrasse 3, 20097 Hamburg	
			Telephone number to access MSDS	: 040-2376-2185
			For more information	: 040-2376-2613
		United	Sharp Electronics (U. K.) Ltd.	
		Kingdom	Telephone number for information	: 08705-274-277
		France	Sharp Electronics France S.A.	
			Telephone number for information	: 01-49-90-34-00
		Austria	Sharp Electronics GMBH	
	Europe		Telephone number for information	: 01-727-19-0
	Europe	Italy	Sharp Electronics (Italy) S.P.A.	
			Telephone number for information	: 02895951
		Spain	Sharp Electronics (Espana) S.A.	
			Telephone number for information	: 93-581-97-00
		Netherlands	Sharp Electronics Benelux B.V.	
			Telephone number for information	: 30-6359500
		Sweden	Sharp Electronics Nordic AB	
			Telephone number for information	: 08-634-36-00
		Switzerland	Sharp Electronics(Schweiz)AG	
			Telephone number for information	: 01-846-6111
	Middle	U.A.E.	Sharp Middle East FZE	
	East		P.O.Box 17115 Jebel Ali, Dubai	
	East		Telephone number for information	: 04-815311

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[] Preparation[X]

Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC- TW/
Styrene-Acrylate copolymer	Confidential	85-90%	Not listed	Not listed	Not listed	Not listed
Carbon black	1333-86-4	5-8%	3.5mg/m ³	3.5mg/m ³	Not listed	3mg/m ³
Iron oxide	1317-61-9	1-5%	Not listed	Not listed	Not listed	Not listed
Paraffin wax	8002-74-2	1-3%	Not listed	Not listed	Not listed	Not listed
Polypropylene	Confidential	0.5-3%	Not listed	Not listed	Not listed	Not listed

SHARP

MATERIAL SAFETY DATA SHEET

Page : 2/4

Date Revised : Mar . 1. 2007 Date Issued : Sep . 1. 2003 MSDS No. F-01231

3.HAZARDS IDENTIFIC	ATION		
Most Important Hazar	ds and Effe	ects of the Products	
Human Health Effect Environmental Effect Specific Hazards Directive 1999/45/EC(I	perform indicate s : No data : [ed using toner. When any symptoms of fibro a are available. Dust explosion (like mo	ost finely divided organic powders)
4.FIRST-AID MEASURE	S		
Route(s) of Entry: Inl	halation? Yes	<u>Skin?</u> No	Ingestion? Possible but very unusual.
	res	NO	Possible but very unusual.
Inhalation : Remov	e to fresh ai	ir. If symptoms occur.	consult medical personnel.
		• •	s or until particle is removed.
	•	cur, consult medical pe	
			minutes. If irritation does occur, consult medical personne
•	•	•	es of water. If irritation or discomfort does occur, consult
-	l personnel.	•	
	-		
5.FIRE-FIGHTING MEA	SURES		
Extinguishing Media		: Water, CO ₂ , foam a	ind dry chemicals
Special Fire Fighting I	Procedures	s:None	
Fire and Explosion Ha	zards	: Toner material, like mixture.	most finely divided organic powders, may form an explosiv
6.ACCIDENTAL RELEA	SE MEAS	URES	
Personal Precautions		: None	
Environmental Precau	itions	: None	
Methods for Cleaning	Up		or cloth. Do not use vacuum cleaner when a large amount i ost finely divided organic powders, is capable of creating
7.HANDLING AND STO	RAGE		
Handling			
Technical Measures	: None		
Precautions	: None		
	: Use of a	dust mask is recomme	ended when handling a large quantity of toner or during lon
Safe Handling Advice			
Safe Handling Advice	term exp	osure, as with any nor	n-toxic dust. Try not to disperse the particles.
Safe Handling Advice	term exp	oosure, as with any nor	n-toxic dust. Try not to disperse the particles.
·	term exp : None	oosure, as with any nor	n-toxic dust. Try not to disperse the particles.
Storage	: None	·	
Storage Technical Measures	: None : Keep cor	·	re in a cool and dry place.



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Engineering Measures			
Ventilation	: Not required under inte	ended use.	
Exposure Limit Values	·		
OSHA-PEL(USA)	: 15mg/m ³ (Total Dust),	5mg/m ³ (Respirabl	le Dust)
ACGIH-TLV(USA)	: 10mg/m ³ (Total Dust),	3mg/m ³ (Respirabl	le Dust)
Personal Protective Equipm	ent	•	
Respiratory Protection	: Not required under inte	ended use.	
Hand Protection	: Not required under inte	ended use.	
Eye Protection	: Not required under inte	ended use.	
Skin Protection	: Not required under inte	ended use.	
Other Protective Equipment	: Use of a dust mask an	d goggles are recom	mended when handling a large
	quantity of toner or du	ring long term exposi	ure, as with any non-toxic dust.
9.PHYSICAL AND CHEMICA	L PROPERTIES		
Appearance			
Physical State : Solid	Form : Powder	Color : Black	Odor : faint odor
Ph	: Not applicable		
Boiling / Melting Point	: Not applicable		
Softening Point(°C)	: 130°C		
Flash Point(°C)	: Not applicable		
Ignition Point(°C)	: No data		
Explosion Properties	: No data		
Density(g/cm³)	: 1.1		
Solubility in Water	: Negligible		
0.STABILITY AND REACTIVI	ТҮ		
Stability	: Stable		
Hazardous Reactions		e most finely divided	d organic powders.
Conditions to Avoid	: Electric discharge	•	.
Materials to Avoid	: Oxidizing Material	, 0	
Hazardous Decomposition F	•		
Further Information	: None		

11.TOXICOLOGICAL INFORMATION

Acute Toxicity	
Ingestion(oral)	: LD ₅₀ > 2000mg/kg (Rats)
Inhalation	: LC ₅₀ >5.14mg/L (Rats)
Eye irritation	: Not an irritant (Rabbits)
Skin irritation	: Not an irritant (Rabbits)
Skin sensitizer	: No sensitization
Mutagenicity	: Negative(Ames Test).
Carcinogenicity	: In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black



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Chronic Effect	and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. : In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m ³) exposure group, but no pulmonary change was reported in the lowest (1mg/m ³)
	exposure group, the most relevant level to potential human exposures.
12.ECOLOGICAL INF	ORMATION
No data are availab	е.
13.DISPOSAL CONS	DERATIONS
Waste from Residu	ies : Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.
Contaminated Pac	kaging : Waste may be disposed or incinerated under conditions which meet all federal, state
	and local environmental regulations.
14.TRANSPORT INFO	ORMATION
UN Classification	: None
Not classified as ha	zardous for transport.
15.REGULATORY IN	FORMATION
US Information	
TSCA(Toxic Subst	ances Control Act) :
All chemical sub	stances in this product comply with all applicable rules or order under TSCA.
SARA(Superfund A	Amendments and Reauthorization Act) Title III
	zardous Substance : None
311/312 Hazard	Classification : None
EU Information	
1999/45/EC and	67/548/EEC
Symbol & Inc	lication : Not required
R-Phrase	: Not required
76/769/EEC	: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.
16.OTHER INFORMA	TION
NFPA Rating (USA)	: Health=1 Flammability=1 Reactivity=0

WHMIS Legislation (Canada) : This product is not a controlled product.

References

 IARC (1996) : IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65, Printing Process And Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261
 H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.



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1.PRODUCT	AND COM	PANY IDENTIFI	CATION	
Product N	ame	: AL-1651CS/	AL-1661CS/AL-1631/AL-1641CS/AL-1642	2CS/AL-1217D
		AL-1457D/F	O-DC550/AL-1655CS/	
		FO-55ND/AI	L-100TD/AL-110TD/AL-100TDN(Black De	veloper)
Supplier lo	dentification	: Sharp Corpora	ation	
		22-22 Nagaike	e-cho, Abeno-ku, Osaka, Japan	
Local s	suppliers are	listed below. Plea	ase contact the nearest supplier for addition	onal information.
	Area	(Country)	(Name and Telephone	Number)
		U.S.A.	Sharp Electronics Corporation	
			Sharp Plaza, Mahwah, NJ	
	North		Telephone number for information	: 1-800-237-4277
	America		Emergency telephone number	: 1-800-255-3924
	America	Canada	Sharp Electronics of Canada Ltd.	
			Telephone number for information	: 905-890-2100
			Emergency telephone number	: 1-800-255-3924
		Australia	Sharp Corporation of Australia PTY. Ltc	I
	Oceania		No1 Huntingwood Drive Huntingwood	
			Telephone number for information	: 1300-13-50-22
		Germany	Sharp Electronics (Europe) GMBH	
			Sonninstrasse 3, 20097 Hamburg	
			Telephone number to access MSDS	: 040-2376-2185
			For more information	: 040-2376-2613
		United	Sharp Electronics (U. K.) Ltd.	
		Kingdom	Telephone number for information	: 08705-274-277
		France	Sharp Electronics France S.A.	
			Telephone number for information	: 01-49-90-34-00
		Austria	Sharp Electronics GMBH	
	Europe		Telephone number for information	: 01-727-19-0
	Laropo	Italy	Sharp Electronics (Italy) S.P.A.	
		_	Telephone number for information	: 02895951
		Spain	Sharp Electronics (Espana) S.A.	
			Telephone number for information	: 93-581-97-00
		Netherlands	Sharp Electronics Benelux B.V.	00.0050500
		0	Telephone number for information	: 30-6359500
		Sweden	Sharp Electronics Nordic AB	- 00 624 26 00
		Switzerland	Telephone number for information	: 08-634-36-00
		Switzenand	Sharp Electronics(Schweiz)AG	- 01 040 0111
			Telephone number for information	: 01-846-6111
	Middle	U.A.E.	Sharp Middle East FZE	
	East		P.O.Box 17115 Jebel Ali, Dubai Telephone number for information	: 04-815311
				. 04-015511

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[] Preparation[X]

Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC- TWA
Iron powder	7439-89-6	90-95%	Not listed	Not listed	Not listed	Not listed
Styrene-Acrylate copolymer	Confidential	5-10%	Not listed	Not listed	Not listed	Not listed
Carbon black	1333-86-4	0.1-0.9%	3.5mg/m ³	3.5mg/m ³	Not listed	3mg/m ³



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	ATION			
Most Important Hazard	ds and Effects	s of the Products		
Human Health Effects			inogenic effects from exposure based on animal te	
		U	used as intended according to instructions, studies	do not
		y symptoms of fibro	osis will occur.	
Environmental Effects				
Specific Hazards			ost finely divided organic powders)	
Directive 1999/45/EC(E	Europe) : Not	classified as dange	erous	
4.FIRST-AID MEASURE	S			
Route(s) of Entry : Inl	nalation?	Skin?	Ingestion?	
	No	No	Possible but very unusual.	
Inhalation : Remove	e to fresh air. If	f symptoms occur,	consult medical personnel.	
Skin Contact : Wash w	/ith soap and w	vater for 15 minutes	s or until particle is removed.	
If irritati	on does occur,	, consult medical pe	ersonnel.	
Eye Contact : Flush e	yes immediate	ely with water for 15	minutes. If irritation does occur, consult medical p	ersonnel
Ingestion : Rinse w	/ith water and o	drink several glasse	es of water. If irritation or discomfort does occur, co	nsult
medica	l personnel.			
5.FIRE-FIGHTING MEA	SURES			
Extinguishing Media		Water, CO ₂ , foam a	and dry chemicals	
Special Fire Fighting P	Procedures · I	None		
Special Fire Fighting F			most finely divided organic powders, may form an	avalasiv
Special Fire Fighting F Fire and Explosion Ha	zards : ¯	Toner material, like	most finely divided organic powders, may form an	explosive
	zards : ¯		most finely divided organic powders, may form an	explosive
	zards : ⁻ r	Toner material, like mixture.	most finely divided organic powders, may form an	explosive
Fire and Explosion Ha	zards : ⁻ r SE MEASUR	Toner material, like mixture.	most finely divided organic powders, may form an	explosive
Fire and Explosion Ha	zards : ⁻ r SE MEASUR : 1	Toner material, like mixture. RES	most finely divided organic powders, may form an	explosive
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions	zards : ⁻ r SE MEASUR : f itions : f	Toner material, like mixture. RES None None	most finely divided organic powders, may form an	·
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau	zards : r SE MEASUR : I tions : I Up : \	Toner material, like mixture. RES None None Wipe off with paper		imount i
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau	zards : r SE MEASUR : I tions : I Up : \ r	Toner material, like mixture. RES None None Wipe off with paper	or cloth. Do not use vacuum cleaner when a large	amount i
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning	zards : r r SE MEASUR : I tions : I Up : \ r c	Toner material, like mixture. RES None None Wipe off with paper released. It, like mo	or cloth. Do not use vacuum cleaner when a large	amount i
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau	zards : r r SE MEASUR : I tions : I Up : \ r c	Toner material, like mixture. RES None None Wipe off with paper released. It, like mo	or cloth. Do not use vacuum cleaner when a large	amount i
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO	zards : r r SE MEASUR : I tions : I Up : \ r c	Toner material, like mixture. RES None None Wipe off with paper released. It, like mo	or cloth. Do not use vacuum cleaner when a large	imount i
Fire and Explosion Ha	zards : r r SE MEASUR : 1 tions : 1 Up : \ r c RAGE	Toner material, like mixture. RES None None Wipe off with paper released. It, like mo	or cloth. Do not use vacuum cleaner when a large	imount i
Fire and Explosion Ha	zards : r r SE MEASUR : fl tions : f Up : \ r c RAGE : None : None : None	Toner material, like mixture. RES None Wipe off with paper released. It, like mo dust explosion.	or cloth. Do not use vacuum cleaner when a large a bost finely divided organic powders, is capable of c	amount is
Fire and Explosion Ha	zards : r SE MEASUR : I tions : I Up : \ C RAGE : None : None : None : Use of a dus	Toner material, like mixture. EES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme	or cloth. Do not use vacuum cleaner when a large a bost finely divided organic powders, is capable of c	amount is
Fire and Explosion Ha	zards : r SE MEASUR : I tions : I Up : \ C RAGE : None : None : None : Use of a dus	Toner material, like mixture. EES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme	or cloth. Do not use vacuum cleaner when a large a bost finely divided organic powders, is capable of c	amount is
Fire and Explosion Ha	zards : r SE MEASUR : I tions : I Up : \ C RAGE : None : None : None : Use of a dus	Toner material, like mixture. EES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme	or cloth. Do not use vacuum cleaner when a large a bost finely divided organic powders, is capable of c	amount is reating a
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO Handling Technical Measures Precautions Safe Handling Advice Storage	zards : SE MEASUR : I tions : I Up : \ RAGE : None : None : Use of a dus term expose : None	Toner material, like mixture. RES None Wipe off with paper released. It, like mo dust explosion.	or cloth. Do not use vacuum cleaner when a large a bost finely divided organic powders, is capable of c	amount is reating a
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures	zards : ' SE MEASUR (tions : 1 Up : \ RAGE : None : None : Use of a dus term expose : None : None : None : None : None	Toner material, like mixture. RES None Wipe off with paper released. It, like mo dust explosion.	or cloth. Do not use vacuum cleaner when a large a ost finely divided organic powders, is capable of c ended when handling a large quantity of toner or do n-toxic dust. Try not to disperse the particles. re in a cool and dry place.	amount i reating
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products	zards : ' SE MEASUR itions : I Up : \ RAGE : None : None : Use of a dus term expose : None : Keep contai Keep out of : None	Toner material, like mixture. IES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme ure, as with any non iner closed and Sto f the reach of childre	or cloth. Do not use vacuum cleaner when a large a ost finely divided organic powders, is capable of o ended when handling a large quantity of toner or do n-toxic dust. Try not to disperse the particles. re in a cool and dry place. en.	amount i reating
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions	zards : ' SE MEASUR itions : I Up : \ RAGE : None : None : Use of a dus term expose : None : Keep contai Keep out of : None	Toner material, like mixture. IES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme ure, as with any non iner closed and Sto f the reach of childre	or cloth. Do not use vacuum cleaner when a large a ost finely divided organic powders, is capable of o ended when handling a large quantity of toner or do n-toxic dust. Try not to disperse the particles. re in a cool and dry place. en.	amount is reating a
Fire and Explosion Ha 6.ACCIDENTAL RELEA Personal Precautions Environmental Precau Methods for Cleaning 7.HANDLING AND STO Handling Technical Measures Precautions Safe Handling Advice Storage Technical Measures Storage Conditions Incompatible Products	zards : ' SE MEASUR itions : I Up : \ RAGE : None : None : Use of a dus term expose : None : Keep contai Keep out of : None : Keep contai Keep out of : None : Sone : None : Sone : Sone	Toner material, like mixture. IES None Wipe off with paper released. It, like mo dust explosion. st mask is recomme ure, as with any non iner closed and Sto f the reach of childre	or cloth. Do not use vacuum cleaner when a large a ost finely divided organic powders, is capable of o ended when handling a large quantity of toner or do n-toxic dust. Try not to disperse the particles. re in a cool and dry place. en.	amount is reating a



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Exposure Limit Values	
OSHA-PEL(USA)	: 15mg/m ³ (Total Dust), 5mg/m ³ (Respirable Dust)
ACGIH-TLV(USA)	: 10mg/m ³ (Total Dust), 3mg/m ³ (Respirable Dust)
Personal Protective Equipment	
Respiratory Protection	: Not required under intended use.
Hand Protection	: Not required under intended use.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Other Protective Equipment	: Use of a dust mask and goggles are recommended when handling a large
	quantity of toner or during long term exposure, as with any non-toxic dust.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance				
Physical State : Solid	Form : Powder	Color : Black	Odor : faint odor	
Ph	: Not applicable			
Boiling / Melting Point	: Not applicable			
Softening Point(°C)	: 130°C(toner)			
Flash Point(°C)	: Not applicable			
Ignition Point(°C)	: No data			
Explosion Properties	: No data			
Density(g/cm³)	: 7			
Solubility in Water	: Negligible			

Stability	: Stable
Hazardous Reactions	: Dust explosion, like most finely divided organic powders.
Conditions to Avoid	: Electric discharge, throwing into fire.
Materials to Avoid	: Oxidizing Materials
Hazardous Decomposition Products	: CO, CO ₂ and NO _X
Further Information	: None

11.TOXICOLOGICAL INFORMATION

Acute Toxicity	
Ingestion(oral)	: LD ₅₀ > 2000mg/kg (Rats)
Inhalation	: LC ₅₀ >5.14mg/L (Rats)
Eye irritation	: Not an irritant (Rabbits)
Skin irritation	: Not an irritant (Rabbits)
Skin sensitizer	: No sensitization
Mutagenicity	: Negative(Ames Test).
Carcinogenicity	: In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.



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Chronic Effect : In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group, but no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

12.ECOLOGICAL INFORMATION

No data are available.

13.DISPOSAL CONSIDERATIONS

Waste from Residues	: Waste material may be dumped or incinerated under conditions which meet all federal,
	state and local environmental regulations.
Contaminated Packaging	: Waste may be disposed or incinerated under conditions which meet all federal, state
	and local environmental regulations.

14.TRANSPORT INFORMATION

UN Classification : None Not classified as hazardous for transport.

15.REGULATORY INFORMATION

US Information

TSCA(Toxic Substances Control Act) :

All chemical substances in this product comply with all applicable rules or order under TSCA.

SARA(Superfund Amendments and Reauthorization Act) Title III

302 Extreme Hazardous Substan	nce : None
311/312 Hazard Classification	: None
EU Information	
1999/45/EC and 67/548/EEC	
Symbol & Indication	: Not required
R-Phrase	: Not required
76/769/EEC	: All chemical substances in this product comply with all applicable rules or
	order under 76/769/EEC.

16.OTHER INFORMATION

NFPA Rating (USA) : Health=1 Flammability=1 Reactivity=0 WHMIS Legislation (Canada) : This product is not a controlled product.

References

 IARC (1996) : IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65, Printing Process And Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261
 H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.

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MEMO

MEMO

For users in the USA

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.

WARNING:

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Users in U.S.A.

Declaration of Conformity SHARP Digital Multifunctional System, AL-2030/AL-2040CS

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.

Responsible Party: SHARP ELECTRONICS CORPORATION Sharp Plaza, Mahwah, New Jersey 07430. TEL: 1-800-BE-SHARP

This product utilizes tin-lead solder, and a fluorescent lamp containing a small amount of mercury.

Disposal of these materials may be regulated due to environmental considerations.

For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eia.org



SHARP ELECTRONICS CORPORATION

1 Sharp Plaza, Mahwah, New Jersey 07430-1164.

www.sharpusa.com

SHARP CORPORATION



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