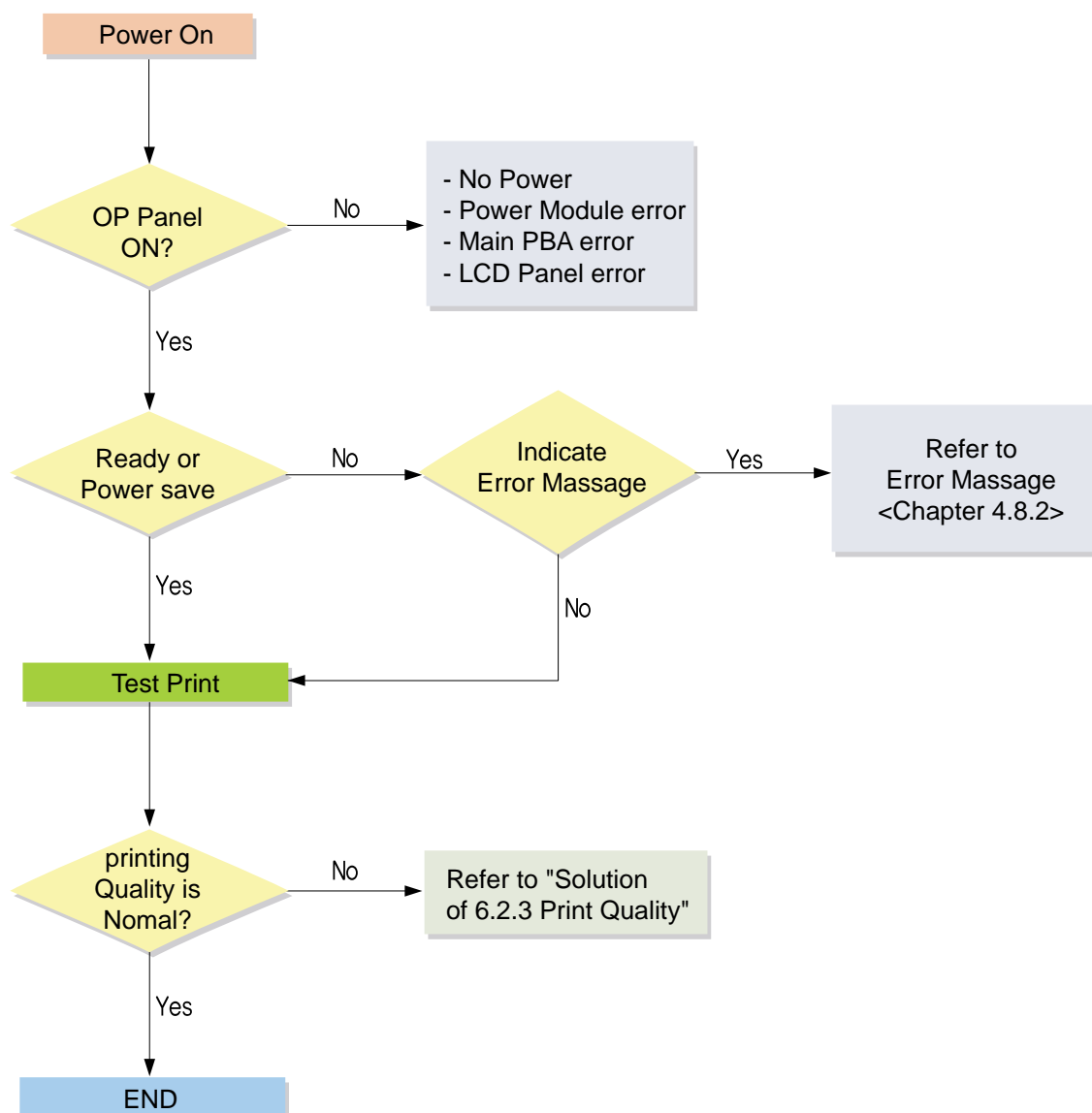


6. Troubleshooting

6.1 Procedure of Checking the Symptoms

Before attempting to repair the printer first obtain a detailed description of the problem from the customer.



6.2 Solution

The following chart lists some conditions that may occur and the recommended solutions. Follow the suggested solutions until the problem is corrected. If the problem persists, please call for service.

6.2.1 Paper feeding problems

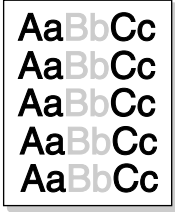
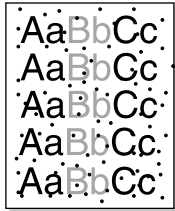
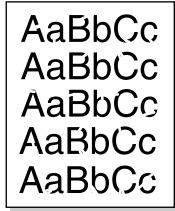
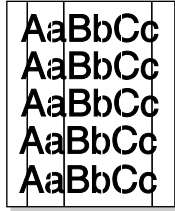
Condition	Suggested solutions
Paper is jammed during printing.	Clear the paper jam.
Paper sticks together.	<ul style="list-style-type: none"> • Ensure that there is not too much paper in the tray. The tray can hold up to 550 sheets of paper, depending on the thickness of your paper. • Make sure that you are using the correct type of paper. • Remove paper from the tray and flex or fan the paper. • Humid conditions may cause some paper to stick together.
Multiple sheets of paper do not feed	<ul style="list-style-type: none"> • Different types of paper may be stacked in the tray. Load paper of only one type, size, and weight. • If multiple sheets have caused a paper jam, clear the paper jam.
Paper does not feed into the machine.	<ul style="list-style-type: none"> • Remove any obstructions from inside the machine. • Paper has not been loaded correctly. Remove paper from the tray and reload it correctly. • There is too much paper in the tray. Remove excess paper from the tray. • The paper is too thick. Use only paper that meets the specifications required by the machine. • If an original does not feed into the machine, the DADF rubber pad may require to be replaced. Contact a service representative.
The paper keeps jamming.	<ul style="list-style-type: none"> • There is too much paper in the tray. Remove excess paper from the tray. If you are printing on special materials, use the multi-purpose tray. • An incorrect type of paper is being used. Use only paper that meets the specifications required by the machine. • There may be debris inside the machine. Open the front cover and remove the debris. • If an original does not feed into the machine, the DADF rubber pad may require to be replaced. Contact a service representative.
Transparencies stick together in the paper exit.	Use only transparencies specifically designed for laser printers. Remove each transparency as it exits from the machine.
Envelopes skew or fail to feed correctly.	Ensure that the paper guides are against both sides of the envelopes.

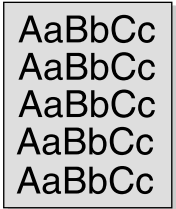
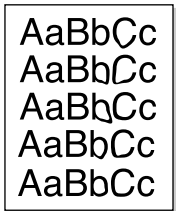
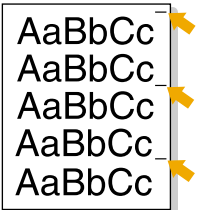
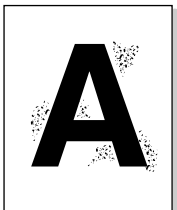
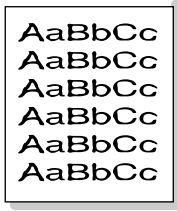
6.2.2 Printing problems

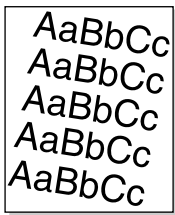
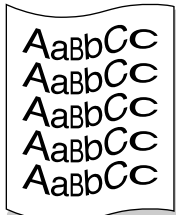
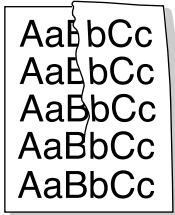
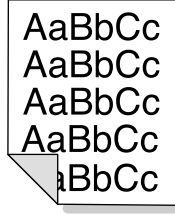
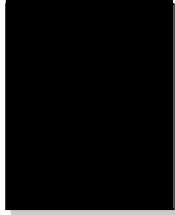
Condition	Possible cause	Suggested solutions
The machine does not print.	The machine is not receiving power.	Check the power cord connections. Check the power switch and the power source.
	The machine is not selected as the default printer.	Select Samsung SCX-6x45 Series PCL 6 as your default printer in your Windows.
	Check the machine for the following: <ul style="list-style-type: none"> • The front cover is not closed. Close the cover. • Paper is jammed. Clear the paper jam. • No paper is loaded. Load paper. • The toner cartridge is not installed. Install the toner cartridge. If a system error occurs, contact your service representative.	
	The connection cable between the computer and the machine is not connected properly.	Disconnect the printer cable and reconnect it.
	The connection cable between the computer and the machine is defective.	If possible, attach the cable to another computer that is working properly and print a job. You can also try using a different printer cable.
	The port setting is incorrect.	Check the Windows printer setting to make sure that the print job is sent to the correct port. If the computer has more than one port, make sure that the machine is attached to the correct one.
	The machine may be configured incorrectly.	Check the printer properties to ensure that all of the print settings are correct.
	The printer driver may be incorrectly installed.	Repair the printer software. See the Software Section.
	The machine is malfunctioning.	Check the display message on the control panel to see if the machine is indicating a system error.
The machine selects print materials from the wrong paper source.	The paper source selection in the printer properties may be incorrect.	For many software applications, the paper source selection is found under the Paper tab within the printer properties. Select the correct paper source. See the printer driver help screen.
A print job is extremely slow.	The job may be very complex.	Reduce the complexity of the page or try adjusting the print quality settings.
	If you are using Windows 98/Me, the Spool Setting may be set incorrectly.	From the Start menu, choose Settings and then Printers. Right-click the Samsung SCX-6x45 Series PCL 6 machine icon, choose Properties, click the Details tab, and then choose the Spool Settings button. Select the desired spool setting.

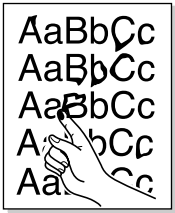
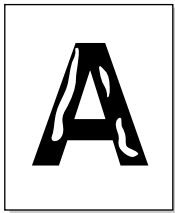
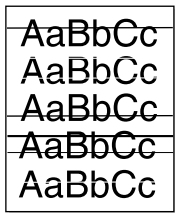
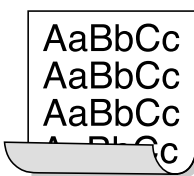
Condition	Possible cause	Suggested solutions
Half the page is blank.	The page orientation setting may be incorrect.	Change the page orientation in your application. See the printer driver help screen.
	The paper size and the paper size settings do not match.	Ensure that the paper size in the printer driver settings matches the paper in the tray. Or, ensure that the paper size in the printer driver settings matches the paper selection in the software application settings you use.
The machine prints, but the text is wrong, garbled, or incomplete.	The printer cable is loose or defective.	Disconnect the printer cable and reconnect. Try a print job that you have already printed successfully. If possible, attach the cable and the machine to another computer and try a print job that you know works. Finally, try a new printer cable.
	The wrong printer driver was selected.	Check the application's printer selection menu to ensure that your machine is selected.
	The software application is malfunctioning.	Try printing a job from another application.
	The operating system is malfunctioning.	Exit Windows and reboot the computer. Turn the machine off and then back on again.
Pages print, but are blank.	The toner cartridge is defective or out of toner.	Redistribute the toner, if necessary. If necessary, replace the toner cartridge.
	The file may have blank pages.	Check the file to ensure that it does not contain blank pages.
	Some parts, such as the controller or the board, may be defective.	Contact a service representative.
When you are using Windows 98, the illustrations print incorrectly from Adobe Illustrator.	The setting in the software application is wrong.	Select Download as Bit Image in the Advanced Options window of the graphic properties and print the document again.
PDF file does not print correctly—some parts are missing in graphics, text or illustrations.	Incompatibility between the PDF file and the Acrobat products.	Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options. Note: It Will take longer to print when you print a PDF file as an image.

6.2.3 Printing quality problems

Condition	Suggested solutions
Light or faded print 	<p>If a vertical white streak or faded area appears on the page:</p> <ul style="list-style-type: none"> • The toner supply is low. You may be able to temporarily extend the toner cartridge life. If this does not improve the print quality, install a new toner cartridge. • The paper may not meet paper specifications; for example, the paper is too moist or too rough. • If the entire page is light, the print resolution setting is too low or the toner save mode is on. Adjust the print resolution and turn the toner save mode off. • A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. Contact a service representative. • The surface of the LSU part inside the machine may be dirty. Clean the LSU, contact a service representative.
Toner specks 	<ul style="list-style-type: none"> • The paper may not meet specifications; for example, the paper is too moist or too rough. • The transfer roller may be dirty. Clean the inside of your machine. Contact a service representative. • The paper path may need cleaning. Contact a service representative.
Dropouts 	<p>If faded areas, generally rounded, occur randomly on the page:</p> <ul style="list-style-type: none"> • A single sheet of paper may be defective. Try reprinting the job. • The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper. • The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper. • If these steps do not correct the problem, contact a service representative.
Vertical lines 	<p>If black vertical streaks appear on the page:</p> <ul style="list-style-type: none"> • The drum inside the printer has probably been scratched. Remove the drum cartridge and install a new one. <p>If white vertical streaks appear on the page:</p> <ul style="list-style-type: none"> • The surface of the LSU part inside the machine may be dirty. Clean the LSU. Contact a service representative.

Condition	Suggested solutions
Gray background 	<p>If the amount of background shading becomes unacceptable:</p> <ul style="list-style-type: none"> • Change to a lighter weight paper. • Check the machine's environment: very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. • Remove the old drum and toner cartridge and then, install a new one.
Toner smear 	<ul style="list-style-type: none"> • Clean the inside of the machine. Contact a service representative. • Check the paper type and quality. • Remove the drum and toner cartridge and then, install a new one. See page 9.4.
Vertical repetitive defects 	<p>If marks repeatedly appear on the printed side of the page at even intervals:</p> <ul style="list-style-type: none"> • The drum and toner cartridge may be damaged. If a repetitive mark occurs on the page, print a cleaning sheet several times to clean the cartridge; contact a service representative. After the printout, if you still have the same problems, remove the drum and toner cartridge and then, install a new one. • Parts of the machine may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. • The fusing assembly may be damaged. Contact a service representative.
Background scatter 	<p>Background scatter results from bits of toner randomly distributed on the printed page.</p> <ul style="list-style-type: none"> • The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. • If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. • If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or the printer properties.
Misformed characters 	<ul style="list-style-type: none"> • If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try a different paper. • If characters are improperly formed and producing a wavy effect, the scanner unit may need service. For service, contact a service representative.

Condition	Suggested solutions
Page skew 	<ul style="list-style-type: none"> • Ensure that the paper is loaded properly. • Check the paper type and quality. • Ensure that the paper or other material is loaded correctly and the guides are not too tight or too loose against the paper stack.
Curl or wave 	<ul style="list-style-type: none"> • Ensure that the paper is loaded properly. • Check the paper type and quality. Both high temperature and humidity can cause paper curl. • Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
Wrinkles or creases 	<ul style="list-style-type: none"> • Ensure that the paper is loaded properly. • Check the paper type and quality. • Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
Back of printouts are dirty 	<p>Check for leaking toner. Clean the inside of the machine. Contact a service representative.</p>
Black pages 	<ul style="list-style-type: none"> • The drum cartridge may not be installed properly. Remove the cartridge and reinsert it. • The drum cartridge may be defective and need replacing. Remove the drum cartridge and install a new one. • The machine may require repair. Contact a service representative.

Condition	Suggested solutions
Loose toner 	<ul style="list-style-type: none"> • Clean the inside of the machine. Contact a service representative. • Check the paper type and quality. • Remove the drum and toner cartridge and then, install a new one. • If the problem persists, the machine may require repair. Contact a service representative.
Character Voids 	<p>Character voids are white areas within parts of characters that should be solid black:</p> <ul style="list-style-type: none"> • If you are using transparencies, try another type of transparency. Because of the composition of transparencies, some character voids are normal. • You may be printing on the wrong surface of the paper. Remove the paper and turn it around. • The paper may not meet paper specifications.
Horizontal stripes 	<p>If horizontally aligned black streaks or smears appear:</p> <ul style="list-style-type: none"> • The drum and toner cartridge may be installed improperly. Remove the cartridge and reinsert it. • The drum and toner cartridge may be defective. Remove the toner cartridge and install a new one. • If the problem persists, the machine may require repair. Contact a service representative.
Curl 	<p>If the printed paper is curled or paper does not feed into the machine:</p> <ul style="list-style-type: none"> • Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
An unknown image repetitively appears on a next few sheets or loose toner, light print, or contamination occurs.	<p>You printer is probably being used at an altitude of 2,500 m(8,200 ft) or above. The high altitude may affect the print quality such as loose toner or light imaging. You can set this option through Printer Settings Utility or Printer Tab in printer driver's properties. Refer to the Software Section for detail.</p>

6.2.4 Copying problems

Condition	Suggested solutions
Copies are too light or too dark.	Use Darkness to darken or lighten the background of the copies.
Smears, lines, marks, or spots appears on copies.	<ul style="list-style-type: none"> • If defects are on the original, press Darkness to lighten the background of your copies. • If no defects are on the original, clean the scan unit.
Copy image is skewed.	<ul style="list-style-type: none"> • Ensure that the original is face down on the scanner glass or face up in the DADF. • Check that the copy paper is loaded correctly.
Blank copies print out.	Ensure that the original is face down on the scanner glass or face up in the DADF.
Image rubs off the copy easily.	<ul style="list-style-type: none"> • Replace the paper in the tray with paper from a new package. • In high humidity areas, do not leave paper in the machine for extended periods of time.
Frequent copy paper jams occur.	<ul style="list-style-type: none"> • Fan the stack of paper, then turn it over in the tray. Replace the paper in the tray with a fresh supply. Check/adjust the paper guides, if necessary. • Ensure that the paper is the proper paper weight. 75 g/m 2 bond paper is recommended. • Check for copy paper or pieces of copy paper remaining in the machine after a paper jam has been cleared.
Toner cartridge produces fewer copies than expected before running out of toner.	<ul style="list-style-type: none"> • Your originals may contain pictures, solids, or heavy lines. For example, your originals may be forms, newsletters, books, or other documents that use more toner. • The machine may be turned on and off frequently. • The scanner lid may be left open while copies are being made.

6.2.5 Scanning problems

Condition	Suggested solutions
The scanner does not work.	<ul style="list-style-type: none"> • Make sure that you place the original to be scanned face down on the scanner glass, or face up in the DADF. • There may not be enough available memory to hold the document you want to scan. Try the Prescan function to see if that works. Try lowering the scan resolution rate. • Check that the USB or parallel cable is connected properly. • Make sure that the USB or parallel cable is not defective. Switch the cable with a known good cable. If necessary, replace the cable. • If you are using a parallel cable, ensure that it is compliant with IEEE 1284 standards. • Check that the scanner is configured correctly. Check scan setting in the SmarThru Configuration or the application you want to use to make certain that the scanner job is being sent to the correct port.
The unit scans very slowly.	<ul style="list-style-type: none"> • Check if the machine is printing received data. If so, scan the document after the received data has been printed. • Graphics are scanned more slowly than text. • Communication speed slows in scan mode because of the large amount of memory required to analyze and reproduce the scanned image. Set your computer to the ECP printer mode through BIOS setting. It will help to increase the speed. For details about how to set BIOS, refer to your computer user's guide.
<p>Message appears on your computer screen:</p> <ul style="list-style-type: none"> • "Device can't be set to the H/W mode you want." • "Port is being used by another program." • "Port is Disabled." • "Scanner is busy receiving or printing data. When the current job is completed, try again." • "Invalid handle." • "Scanning has failed." 	<ul style="list-style-type: none"> • There may be a copying or printing job in progress. When that job is complete, try your job again. • The Selected port is currently being used. Restart your computer and try again. • The printer cable may be improperly connected or the power may be off. You must use a parallel cable that supports IEEE 1284 bi-directional communications. • The scanner driver is not installed or the operating environment is not set up properly. • Ensure that the machine is properly connected and the power is on, Then restart your computer. • The USB cable may be improperly connected or the power may be off. • Do not use parallel and USB cables at the same time.

6.2.6 Network Scan problems

Condition	Suggested solutions
I cannot find a scanned image file.	You can check the scanned file's destination in the Advanced page in the Network Scan program's Properties screen.
I cannot find the scanned image file after scanning.	<ul style="list-style-type: none"> • Check if the scanned file's application is on your computer. • Check Send image immediately to the specified folder using an associated default application in the Advanced page in the Network Scan program's Properties screen to open the scanned image immediately after scanning.
I forgot my ID and PIN.	Check your ID and PIN in the Server page in the Network Scan program's Properties screen.
I cannot view the Help file.	To view the Help file, you need to have Internet Explorer 4 service pack 2 or above.
I cannot use the Samsung Network Scan Manager	Check your operating system. Supporting operating systems are Windows 98/Me/NT 4.0/2000/XP/2003.

6.2.7 Fax problems

Condition	Suggested solutions
The machine is not working, there is no display and the buttons are not working.	<ul style="list-style-type: none"> • Unplug the power cord and plug it in again. • Ensure that there is power to the electrical outlet.
No dial tone sounds.	<ul style="list-style-type: none"> • Check that the phone line is connected properly. • Check that the phone socket in the wall is working by plugging in another phone.
The numbers stored in memory do not dial correctly.	Make sure that the numbers are stored in memory correctly. Print a Phone Book list.
The original does not feed into the machine.	<ul style="list-style-type: none"> • Make sure that the paper is not wrinkled and you are putting it in correctly. Check that the original is the right size, not too thick or thin • Make sure that the DADF is firmly closed. • The DADF rubber pad may need to be replaced. Contact a service representative.
Faxes are not received automatically.	<ul style="list-style-type: none"> • The receiving mode should be set to Fax. • Make sure that there is paper in the tray. • Check to see if the display shows any error message. If it does, clear the problem.
The machine does not send.	<ul style="list-style-type: none"> • Make sure that the original is loaded in the DADF or on the scanner glass. • Sending should show up on the display. • Check the fax machine you are sending to, to see if it can receive your fax.
The incoming fax has blank spaces or is of poor-quality.	<ul style="list-style-type: none"> • The fax machine sending you the fax may be faulty. • A noisy phone line can cause line errors. • Check your machine by making a copy. • The toner cartridge may be empty. Replace the toner cartridge.
Some of the words on an incoming fax are stretched.	The fax machine sending you the fax had a temporary document jam.
There are lines on the originals you send.	Check your scan unit for marks and clean it.
The machine dials a number, but a connection with the other fax machine fails.	<p>The other fax machine may be turned off, out of paper, or cannot answer incoming calls.</p> <p>Speak with the other machine operator and ask her/him to sort out the problem.</p>
Faxes do not store in memory.	There may not be enough memory space to store the fax. If the display shows the Memory Full message, delete from memory any faxes you no longer need and then try again to store the fax.
Blank areas appear at the bottom of each page or on other pages, with a small strip of text at the top.	<p>You may have chosen the wrong paper settings in the user option setting.</p> <p>For details about paper settings.</p>

6.2.8 Common Windows problems

Condition	Suggested solutions
"File in Use" message appears during installation.	Exit all software applications. Remove all software from the StartUp Group, then restart Windows. Reinstall the printer driver.
"Error Writing to LPTx" message appears.	<ul style="list-style-type: none"> • Ensure that the cables are connected correctly, the machine is on. • If bi-directional communication is not turned on in the driver, it will also cause this message.
"General Protection Fault", "Exception OE", "Spool32", or "Illegal Operation" messages appear.	Close all other applications, reboot Windows and try printing again.
"Fail To Print", "A printer timeout error occurred." messages appear.	These messages may appear during printing. Just keep waiting until the machine finishes printing. If the message appears in standby mode or after printing has been completed, check the connection and/or whether an error has occurred.

6.2.9 Common PostScript problems

The following situations are PS language specific and may occur when several printer languages are being used.

Problem	Possible Cause	Solution
PostScript file cannot be printed.	The PostScript driver may not be installed correctly.	<ul style="list-style-type: none"> • Install the PostScript driver, referring to the Software Section. • Print a configuration page and verify that the PS version is available for printing. • If the problem persists, contact a service representative.
"Limit Check Error" message appears.	The print job was too complex.	You might need to reduce the complexity of the page or install more memory.
A PostScript error page prints.	The print job may not be PostScript.	Make sure that the print job is a PostScript job. Check to see whether the software application expected a setup or PostScript header file to be sent to the machine.
The optional tray 2 is not selected in the driver.	The printer driver has not been configured to recognize the optional tray 2.	Open the PostScript driver properties, select the Device Settings tab, and set the Tray2 option of the Installable Options section to Installed.
When print a document in Macintosh with Acrobat Reader 6.0 or higher, colors print incorrectly.	The resolution setting in the printer driver may not be matched with that in Acrobat Reader.	Make sure that the resolution setting in your printer driver matches that in Acrobat Reader.

6.2.10 Common Linux problems

Problem	Possible Cause and Solution
The machine does not print	<ul style="list-style-type: none"> • Check if the printer driver is installed in your system. Open Unified Driver configurator and switch to the Printers tab in Printers configuration window to look at the list of available printers. Make sure that your machine is displayed on the list. If not, please, invoke Add new printer wizard to set up your device. • Check if the printer is started. Open Printers configuration and select your machine on the printers list. Look at the description in the Selected printer pane. If its status contains "(stopped)" string, please, press the Start button. After that normal operation of the printer should be restored. The "stopped" status might be activated when some problems in printing occurred. For instance, this could be an attempt to print document when port is claimed by a scanning application. • Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. You should open ports configuration and select the port assigned to your printer. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present owner is not functioning properly. • Check if your application has special print option such as "-oraw". If "-oraw" is specified in the command line parameter then remove it to print properly. For Gimp front-end, select "print" -> "Setup printer" and edit command line parameter in the command item.
The machine does not appear on the scanners list	<ul style="list-style-type: none"> • Check if your machine is attached to your computer. Make sure that it is connected properly via the USB port and is turned on. • Check if the scanner driver for your machine is installed in your system. Open Unified Driver configurator, switch to Scanners configuration, then press Drivers. Make sure that driver with a name corresponding to your machine's name is listed in the window. Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. This can usually happen while starting scan procedure, and appropriate message box appears. • To identify the source of the problem, you should open ports configuration and select the port assigned to your scanner. port's symbol /dev/mfp0 corresponds to LP:0 designation displayed in the scanners' options, /dev/mfp1 relates to LP:1 and so on. USB ports start at / dev / mfp4, so scanner on USB:0 relates to / dev / mfp4 respectively and so forth sequentially. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present port's owner is not functioning properly.

Problem	Possible Cause and Solution
The machine does not scan	<ul style="list-style-type: none"> • Check if a document is loaded into the machine. • Check if your machine is connected to the computer. Make sure if it is connected properly if I/O error is reported while scanning. • Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. This can usually happen while starting scan procedure, and appropriate message box will be displayed. <p>To identify the source of the problem, you should open ports configuration and select the port assigned to your scanner. port's symbol /dev/mfp0 corresponds to LP:0 designation displayed in the scanners' options, /dev/mfp1 relates to LP:1 and so on. USB ports start at /dev/ mfp4, so scanner on USB:0 relates to /dev/mfp4 respectively and so forth sequentially. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present port's owner is not functioning properly.</p>
I cannot scan via Gimp Front-end.	<ul style="list-style-type: none"> • Check if Gimp Front-end has "Xsane: Device dialog." on the "Acquire" menu. If not, you should install Xsane plug-in for Gimp on the your computer. <p>You can find Xsane plug-in package for Gimp on Linux distribution CD or Gimp home page. For the detail information, refer to the Help for Linux distribution CD or Gimp Front-end application.</p> <p>If you wish to use other kind of scan application, refer to the Help for application.</p>
I encounter error "Cannot open port device file" when printing a document.	<p>Please avoid changing print job parameters (via LPR GUI, for example) while a print job is in progress. Known versions of CUPS server break the print job whenever print options are changed and then try to restart the job from the beginning. Since Unified Linux Driver locks port while printing, the abrupt termination of the driver keeps the port locked and therefore unavailable for subsequent print jobs. If this situation occurred, please, try to release the port.</p>
I encounter error "Cannot open port devicePDF file does not print correctly-some parts are missing in graphics, text or illustrations.e file" when printing a document.	<p>Incompatibility between the PDF file and the Acrobat products.</p> <p>Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options.</p> <p>Note: It Will take longer to print when you print a PDF file as an image.</p>
The machine does not print.	<p>The CUPS (Common Unix Printing System) version distributed with SuSE Linux 9.2 (cups-1.1.21) has a problem with ipp (Internet Printing Protocol) printing.</p>

6.2.11 Common Macintosh problems

Problem	Possible Cause and Solution
PDF file does not print correctly-some parts are missing in graphics, text or illustrations.	Incompatibility between the PDF file and the Acrobat products. Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options. Note: It Will take longer to print when you print a PDF file as an image.
The document has printed, but the print job has not disappeared from the spooler in Mac OS 10.3.2.	Update your Mac OS to OS 10.3.3. or higher.
Some letters are not displayed normally during the Cover page printing.	This problem is caused because Mac OS can not create the font during the Cover page printing. English alphabet and numbers are displayed normally at the Cover page.

6.2.12 General solution

Error	LCD NOT DISPLAY
[Description]	Engine is warming up properly but LCD does not display anything on.
[Wrong Part]	1. Main Controller 2. OPE 3. SMPS
[Check and Cause]	1. Check 24V on Main controller. 2. If 24V from Main controller is normal, Check the CCFL inverter harness on PE_Main. 3. If not, check the F 71 on SMPS.
[Solution]	1. 24V power and CCFL inverter harness connection are on normal, replace OPE_Main first and retry. 2. Keep on problem with 24V on, replace the Main controller. 3. Replace the SMPS.

Error	LSU Error
[Description]	LSU sync Error displays on LCD
[Wrong Part]	<ol style="list-style-type: none"> 1. Drum Cartridge 2. Main Controller 3. Cover Open Connector
[Check and Cause]	<ol style="list-style-type: none"> 1. Check LSU 5V/24VS 2. Main Controller LSU Part defect 3. Micro Switch Harness
[Solution]	<ol style="list-style-type: none"> 1. Replace Drum Cartridge and retry 2. Replace Main Controller. 3. Replace Micro Switch Assy

Error	Cover Open
[Description]	The cover open message displays on even when the print cover is closed.
[Wrong Part]	<ol style="list-style-type: none"> 1. Hook Lever in the side cover / Micro Switch
[Check and Cause]	<ol style="list-style-type: none"> 1. The Hook Lever in the top cover may be defective. 2. Check the CN8-4 on Main B°ØD and the micro switch on the rear side of set.
[Solution]	<ol style="list-style-type: none"> 1. Replace the hook lever, if defective. 2. Check Cover Open harness. Replace Cover Open S/W 3. Replace the Main Control board.

Error	Fuser
[Description]	Fuser Error
[Wrong Part]	<ol style="list-style-type: none"> 1. Thermostat Open 2. Check IH Fan 3. IH PBA 4. Main PBA
[Check and Cause]	<ol style="list-style-type: none"> 1. Detach AC connector and measure the resistance between them whether it is below 10ohm. If it is over mega ohm, replace it. 2. Replace IH Fan. 3. Replace IH PBA 4. Replace main PBA.

Error	Vertical Black Line and Black Band
[Description]	<ol style="list-style-type: none"> 1. Straight thin black vertical line occurs in the printing. 2. Dark black vertical band occur in the printing.
[Wrong Part]	<ol style="list-style-type: none"> 1. Cleaning blade 2. Charge roller
[Check and Cause]	<ol style="list-style-type: none"> 1. Damaged cleaning blade in the drum cartridge 2. Contamination of the charge roller in the drum cartridge
[Solution]	<ol style="list-style-type: none"> 1. If causes 1 and 2 occur in the drum Cartridge, replace the drum cartridge and try again to print out.

Error	Vertical White Line
[Description]	White vertical voids in the image.
[Wrong Part]	<ol style="list-style-type: none"> 1. LSU 2. Drum Cartridge
[Check and Cause]	<ol style="list-style-type: none"> 1. Foreign matter stuck onto the window of internal lenses of LSU mirror. 2. Foreign matter or toner particles between the magnetic roller and doctor blade. 3. It may occur when Burr and foreign substances are on the window of the drum cartridge frame. 4. If the fuser is defective, voids occur periodically at the top of a black image.
[Solution]	<ol style="list-style-type: none"> 1. Foreign matter stuck onto the window : Clean the LSU window with recommended cleaner(IPA) Clean the window with a clean cotton swab. 2. Foreign matter in the LSU : Open the cover of LSU and clean with a cotton swab on the surface of the reflex mirror. 3. No 3. : Remove the foreign matter and burr of the exposure window. (the drum cartridge frame) 4. No. 4. : Open the front cover and check ribs that corresponds to the position of the voids. Remove if found. 5. If the problems are not solved, replace the drum cartridge.

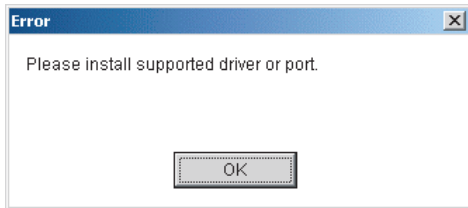
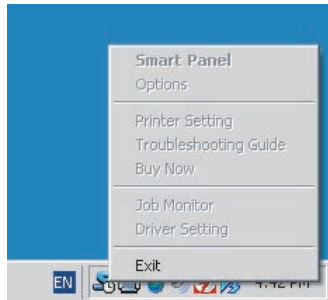
Error	Light Image
[Description]	1. The printed image is light, with no ghost.
[Wrong Part]	1. Drum Cartridge 2. HVPS
[Check and Cause]	1. The state of low toner in drum cartridge when the toner of toner cartridge is almost consumed. 2. Ambient temperature is below than 10℃. 3. Bad contact caused by the toner stains between the high voltage terminal in the HVPS and the one in the set. 4. Abnormal output from the HVPS.
[Solution]	1. Replace the drum cartridge and try to print out. 2. Wait 30 minutes after printer is powered on before you start printing. 3. Clean up the contaminated area by the toner. 4. Replace the HVPS if the problems are not solved by the above four directions.

Error	Dark Image or black
[Description]	The printed image is dark.
[Wrong Part]	1. HVPS
[Check and Cause]	1. No charge voltage in the HVPS board. 2. Charge voltage is not turned on due to the bad contacts between power supply in the side of the drum cartridge and charge terminal of HVPS.
[Solution]	1. Clean the high voltage charge terminal. 2. Check the state of the connector which connects the engine board and HVPS. 3. Replace the HVPS if not solved by the above direction 1 and 2.

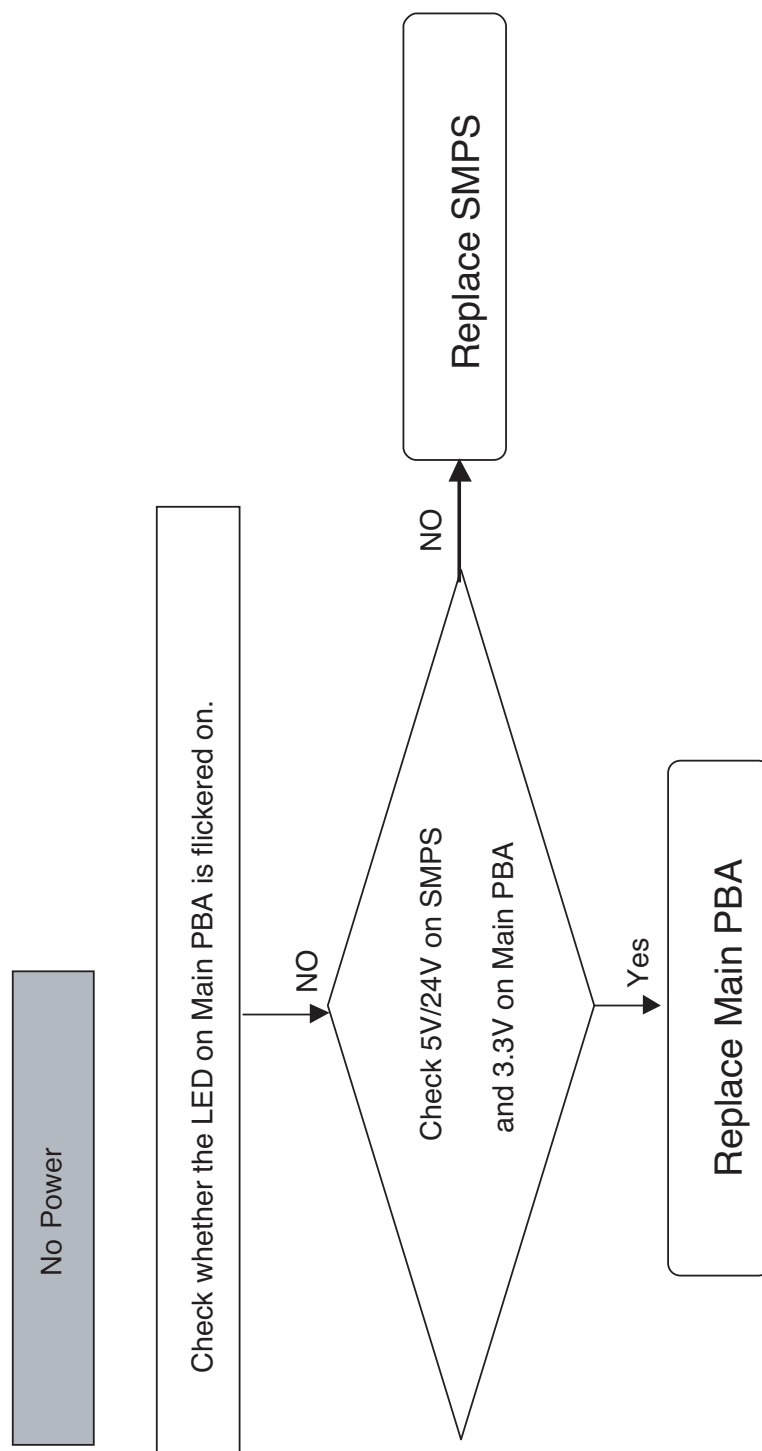
Error	Background
[Description]	Light dark background appears in whole area of the printing.
[Wrong Part]	1. HVPS 2. Low Q/M of developer (High T/C of developer)
[Check and Cause]	1. Does recycle paper be used? 2. Has the life of the developer(carrier+toner) ended? 3. Is the HVPS normal?
[Solution]	1. The Drum cartridge is basically designed to print 60K sheets with simplex mode. If it prints more than 60K sheets, (around 50K sheets) a background can be occurred. 2. The drum cartridge is not guaranteed if using recycle paper. 3. Replace the drum cartridge when the life of it has been ended. 4. Clean the bushing part of the transfer roller. 5. If the problem is still not solved, replace the drum cartridge.

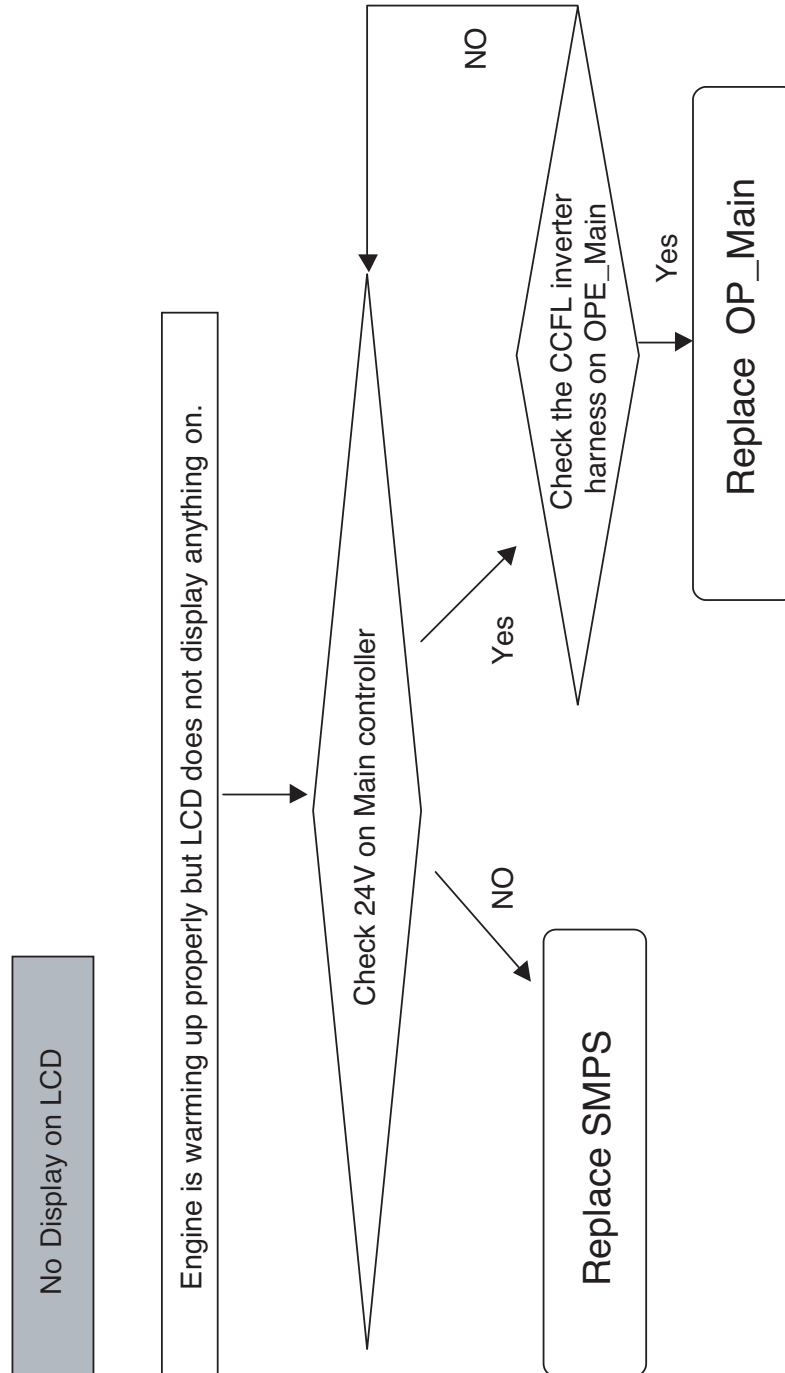
Error	Toner Supply Error
[Description]	The poor supply of toner in the printing.
[Wrong Part]	1. Toner feed roller 2. Toner supply DC motor
[Check and Cause]	1. The state of rotation of toner feed roller 2. Is the toner supply motor normal?
[Solution]	1. Replace the toner cartridge. 2. Replace the toner supply motor.

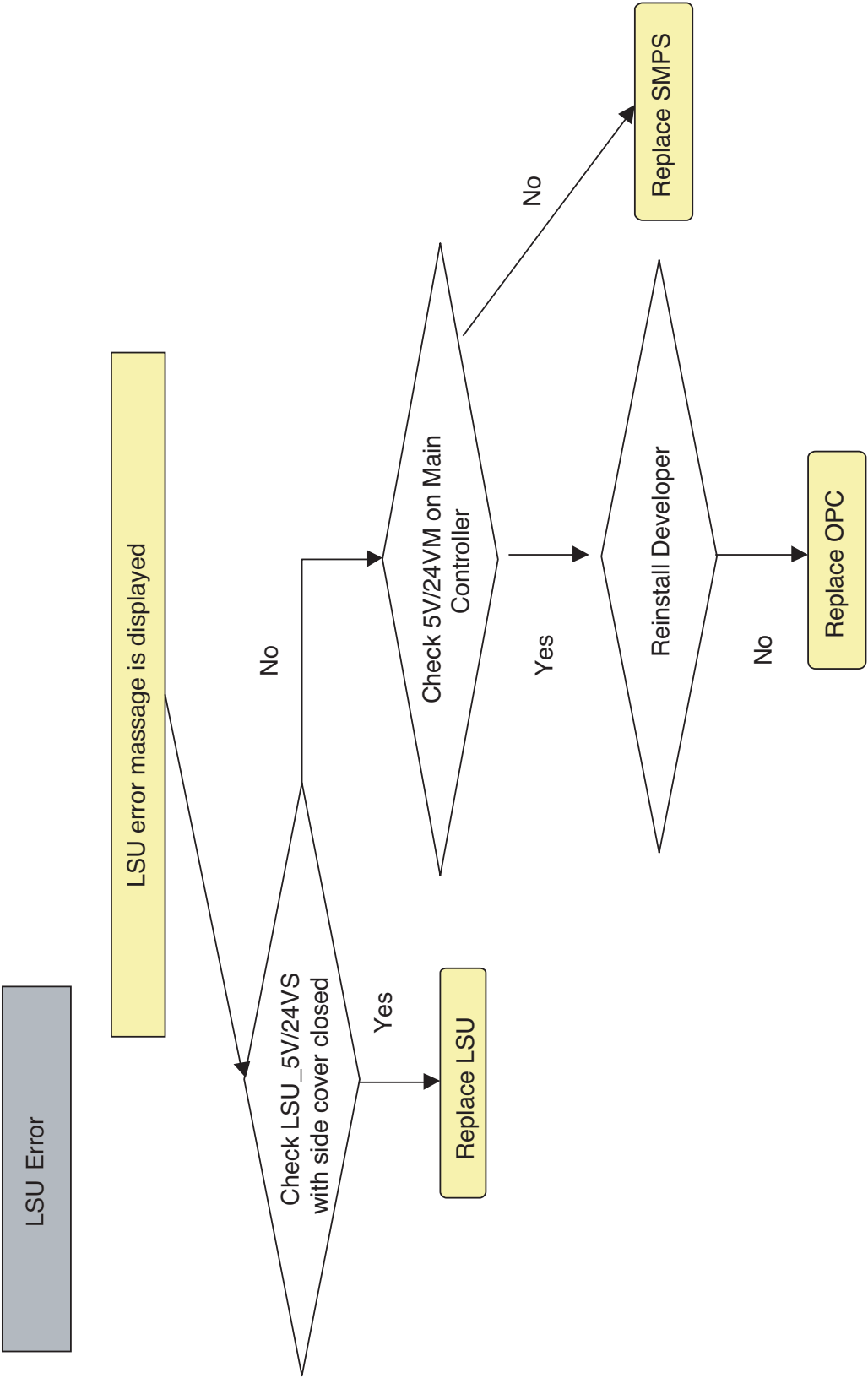
Error	RF_ID
[Description]	Drum Cartridge and Toner Container can't be detected
[Wrong Part]	1. RF_ID Coupler and Tag 2. Main PBA
[Check and Cause]	1. Check RF_ID Tag attached on Drum and Toner 2. Check the DEVE Harness and RF_ID coupler 3. Check Main PBA
[Solution]	1. Replace Drum cartridge and Toner container 2. Replace DEVE Harness and RF_ID coupler. 3. Replace Main PBA

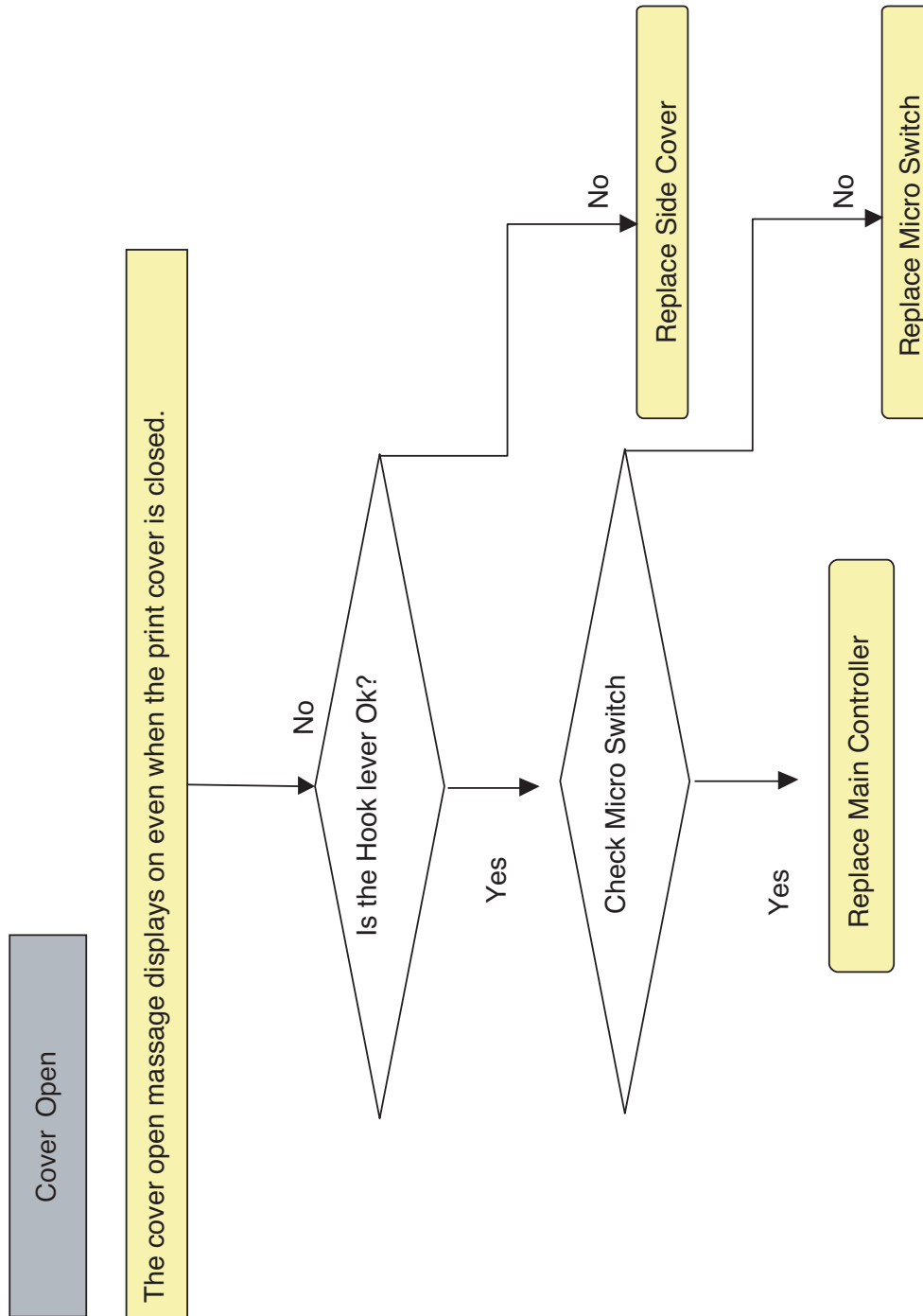
Error	Smart Panel not support
[Description]	Smart Panel only supports USB and Network port.
[Check and Cause]	<p>· If file is printer port, smart panel show below warning message when user try to launch smart panel. Also printer name is not displayed in the menu of tray icon.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
[Solution]	If IP address or USB port name for model A is linked to printer port of model B, Smart Panel for model B works improperly because model B is not connected.

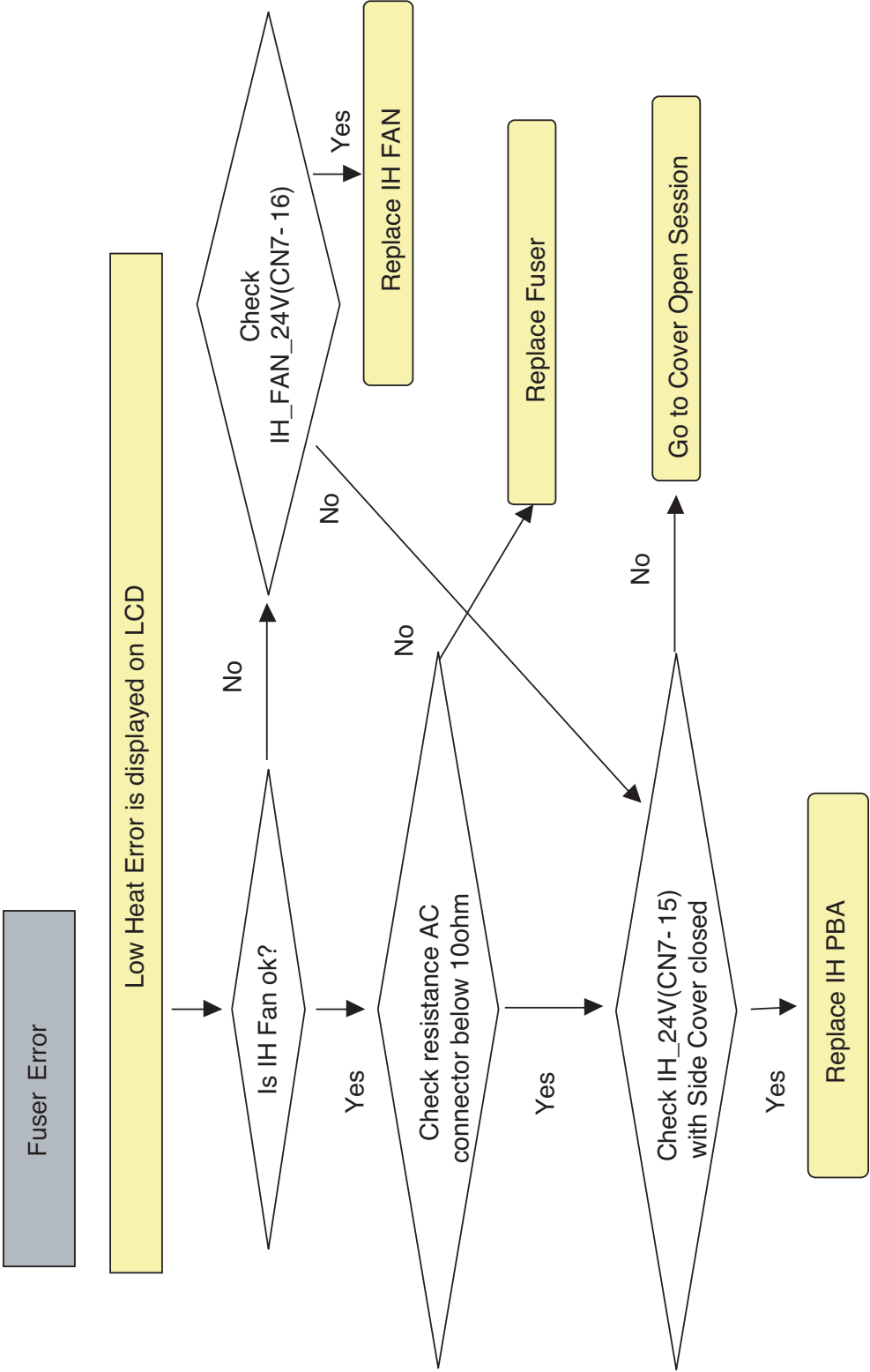
6.2.13 Troubleshooting flowchart

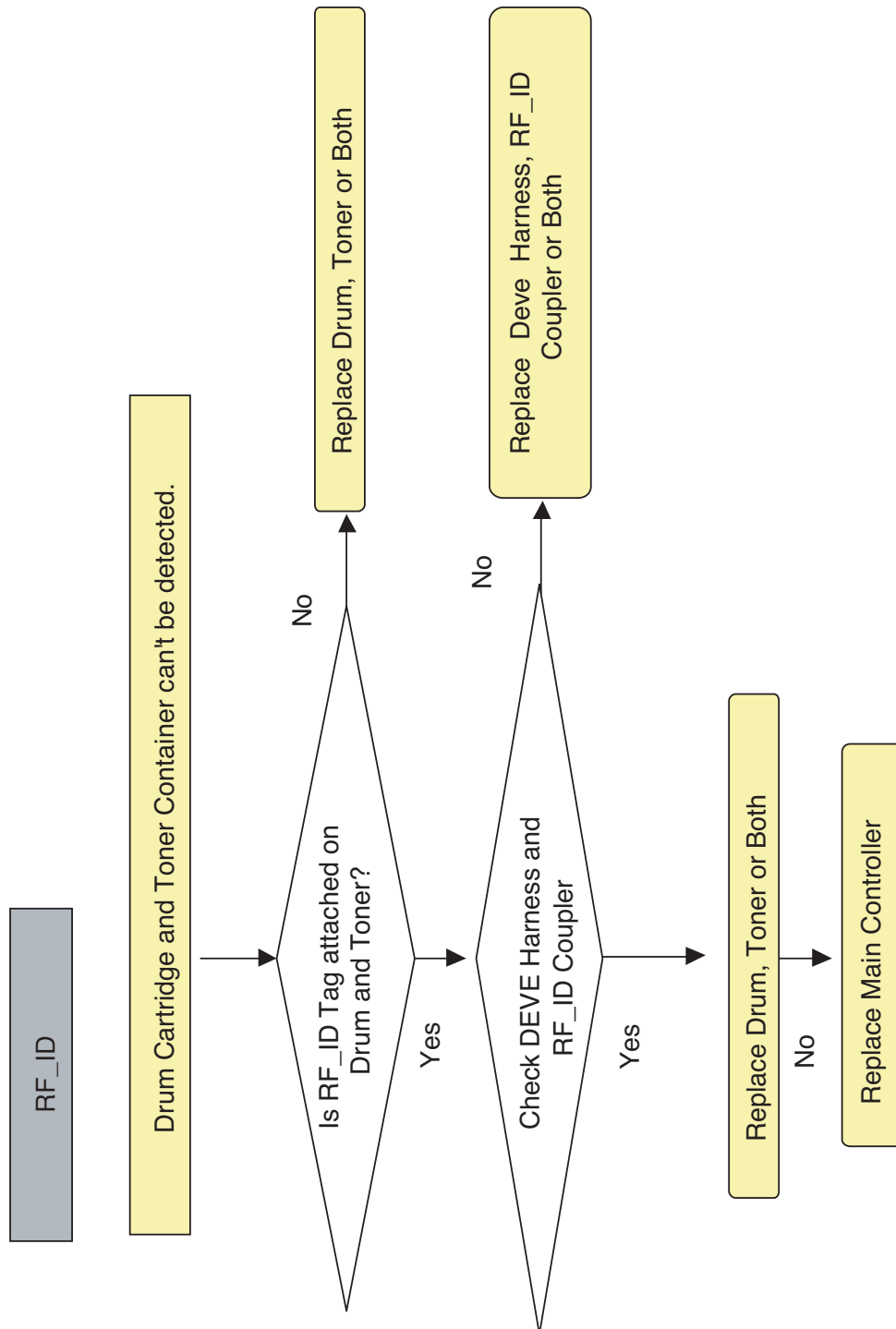








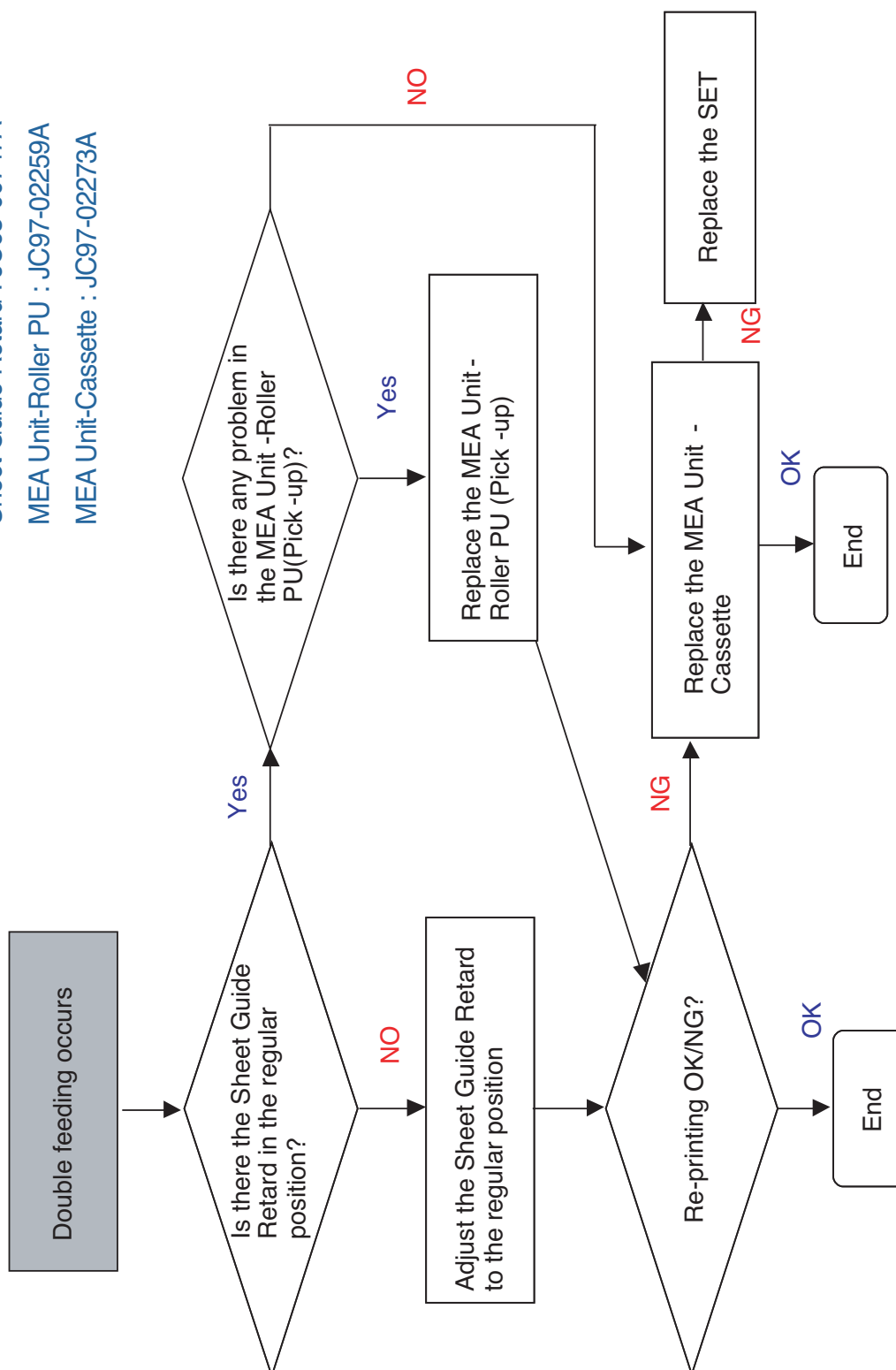




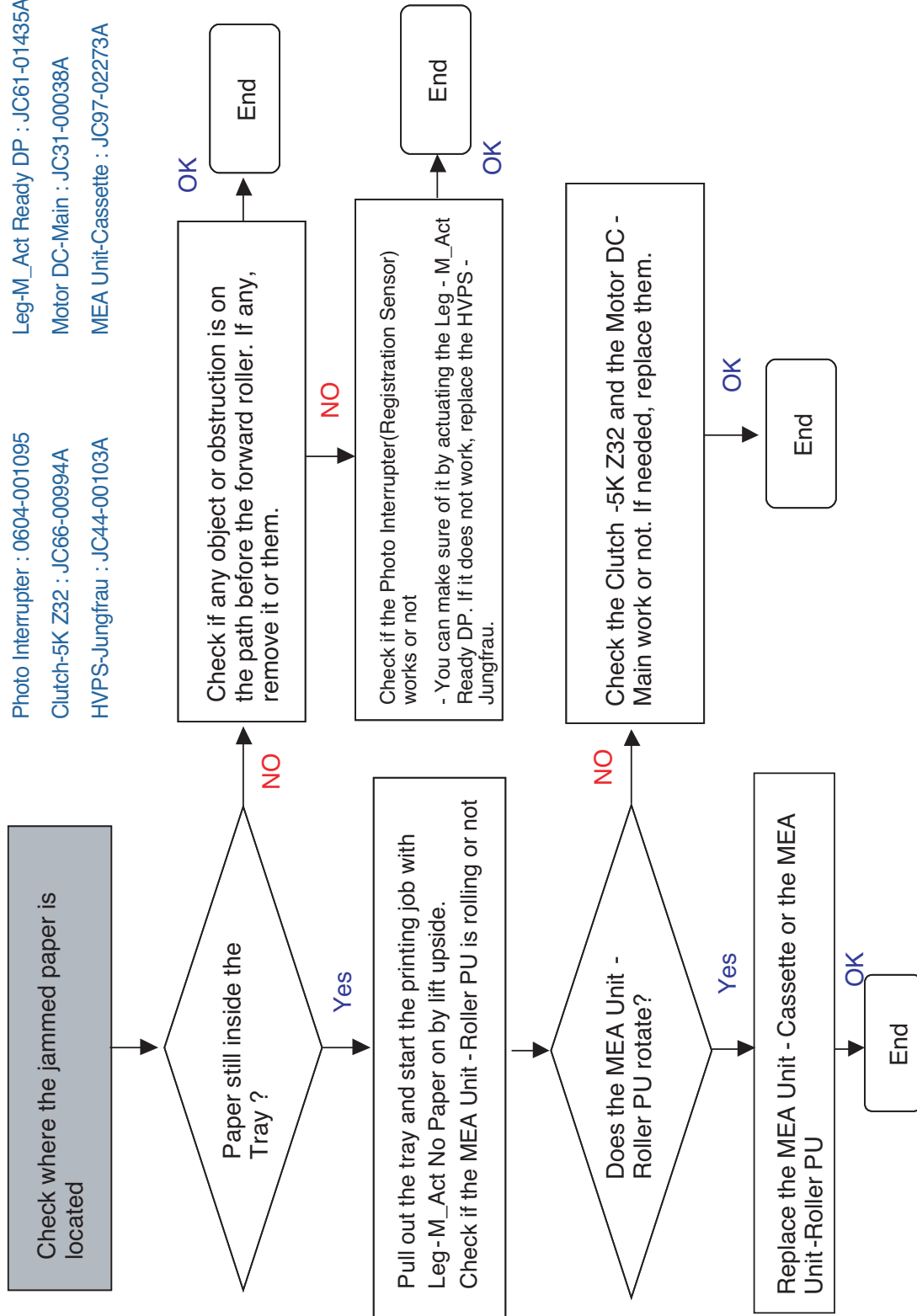
Sheet Guide Retard : JC63-00747A

MEA Unit-Roller PU : JC97-02259A

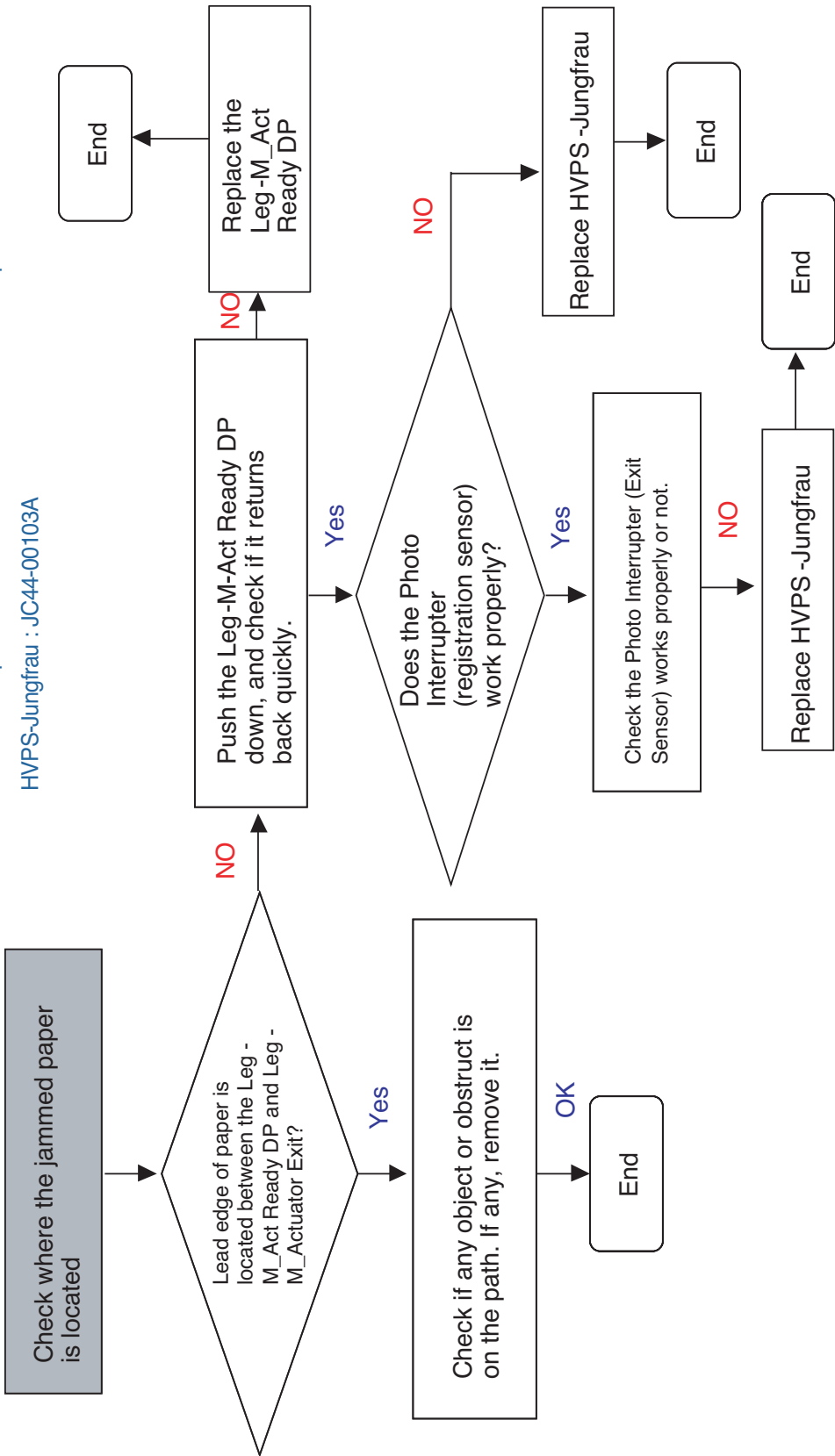
MEA Unit-Cassette : JC97-02273A

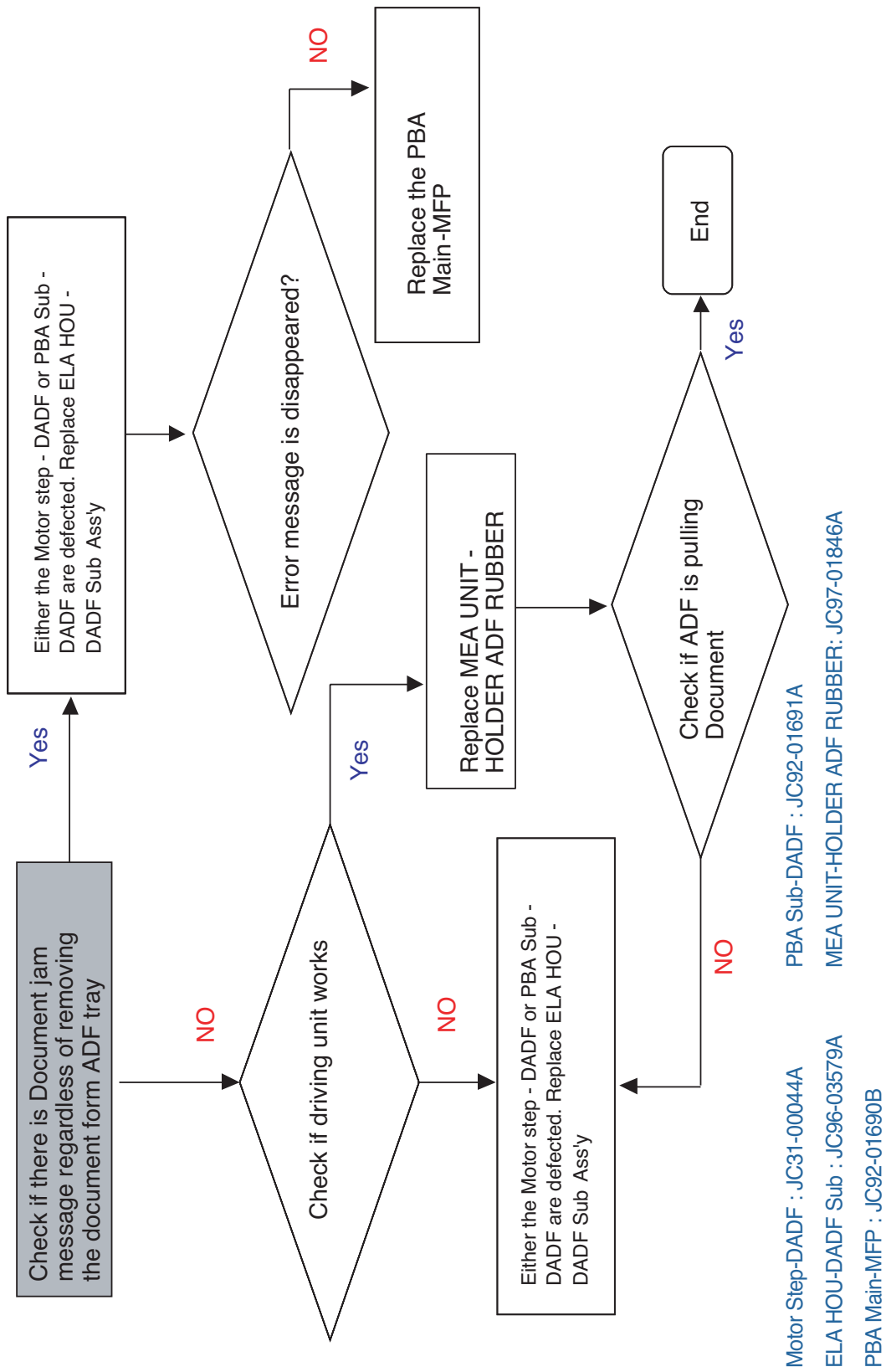


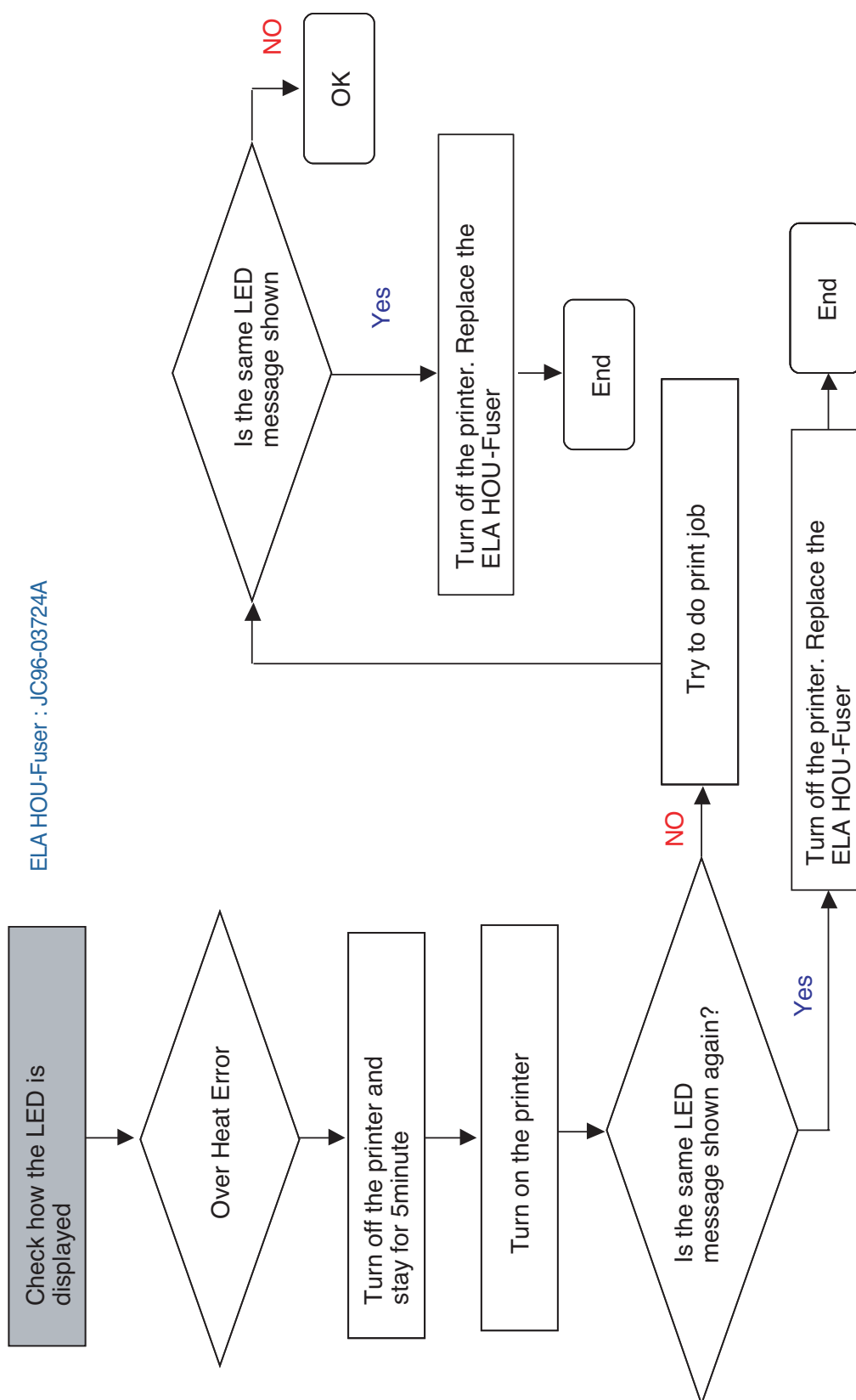
Leg-M_Act No Paper : JC61-01350A
 Photo Interrupter : 0604-001095
 Clutch-5K Z32 : JC66-00994A
 HVPS-Jungfrau : JC44-00103A
 MEA Unit-Roller PU : JC97-02259A
 Leg-M_Act Ready DP : JC61-01435A
 Motor DC-Main : JC31-00038A
 MEA Unit-Cassette : JC97-02273A



Leg-M_Act Ready DP : JC61-01435A Leg-M_Actuator Exit : JC61-01384A
Photo Interrupter : 0604-001095 Photo Interrupter : 0604-001095
HVPS-Jungfrau : JC44-00103A







ELA HOU-Fuser : JC96-03724A

