

Seri *P*rint[®]
THE FUTURE OF DIGITAL DUPLICATING

SP25

Operators Manual

Revision 1.2.6

EU

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Specifications

Machines supported	Digital Duplicator Models C229, C233, C232, C239, C235 and C244 Ricoh , Gestetner, Nashuatec, Rex Rotary, Standard, Savin and Lanier.
Print Speed	60 to 120 Sheets per Minute. (Max 11x17, A3)
Timers	Copies, Lamp Hours
Paper Handling	Automatic speed adjusting vacuum belts.
Paper Collection	As per digital duplicator specification
Paper Size	As per digital duplicator specification
Paper Weight	As per digital duplicator specification
Drying Mechanism	Ink Polymerization
Drying	3 x 400 Watt
Power	230v
Power Save	Automatic Inactivity Shutdown.
Ink	13 Base Colours plus 10 Standard Colors.
Dimensions Boxed	800mm H, 900mm L, 700mm W
Dimensions Stored	658mm H, 874mm L, 600mm W
Dimensions Set up	658mm H, 1234mm L, 600mm W
Weight	80 kg.
Certification	CE, FCC Class A. 

This devise complies with Part 15 of the FCC Rules.

Federal Communications Commission (FCC) Statement.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own risk.

Scientific Management Associates UK Ltd is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorised changes or modifications to this equipment. Unauthorised changes or modifications could void the user's authority to operate the equipment. This devise 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 devise must accept any interference received, including interference that may cause undesired operation.

SAFETY INFORMATION

When using your equipment, the following safety precautions should always be followed.

Safety During Operation

WARNING: Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

WARNING:

- Connect the power cord directly into a wall outlet and never use an extension cord.
- Disconnect the power plug by pulling the plug, not the cable.
- Only connect the machine to the power source described in the Specifications on page 5 of this manual. Connect the power cord directly into a wall outlet and do not use an extension cord.
- Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it. Do not pull it hard nor bend it. These actions could cause an electric shock or fire.
- Do not modify or replace any parts other than the ones specified in this manual
- Since some parts of the machine are supplied with high voltage, touch only the parts specified in this manual.
- To avoid hazardous electric shock, do not remove any covers or screws other than those specified in this manual.
- Do not operate the machine without covers.
- Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following conditions exists:
 - Something is spilled into or on the equipment
 - You suspect your equipment needs service or repair.
 - Your equipment's cover has been damaged.
- Do not leave machine unattended while printing is in progress.
- Do not operate the machine when it is not connected to a Digital Duplicator.
- Only attach to the specified Digital Duplicators listed on page 5.
- UV light is hazardous. Use equipment in accordance with the operation manual.
- Do not remove any covers. No USER serviceable parts inside.
- Adequate ventilation must be provided as specified in the section of this manual entitled "Where to put the SeriPrinter".

CAUTION

- Protect the equipment from direct sunlight, dampness or wet weather, such as rain, snow, and so on.
- While printing, do not turn off any portion of the system. To do so will cause damage to integral components and damage the belts.
- While printing, do not open the cover.
- While printing, do not unplug the power cord.
- While printing, do not move the machine.
- Keep all liquids off the machine.
- Do not allow paper clips, staples, or other small objects to fall inside the machine
- Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove miss fed sheets of paper.
- Do not spill liquid on the machine.
- Do not sit on the machine.
- Do not place the machine up against a wall. Ensure that there is no less than 50cm between the machine and the wall.
- Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.
- If you clean rubber parts with benzine, or other volatile solvent, wipe them with a dry cloth afterwards.
- Always print with UV filter cover in place.
- Do not open any panels marked - HIGH VOLTAGE
- Always turn the power to the machine off when you have finished printing for the day.
- When the machine will not be used for long periods, disconnect the power plug from the wall outlet, always pull the plug (not the cable).
- If the machine must be transported by vehicle, please contact your service representative.
- For environmental reasons, do not dispose of the equipment or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer or at appropriate collection sites.

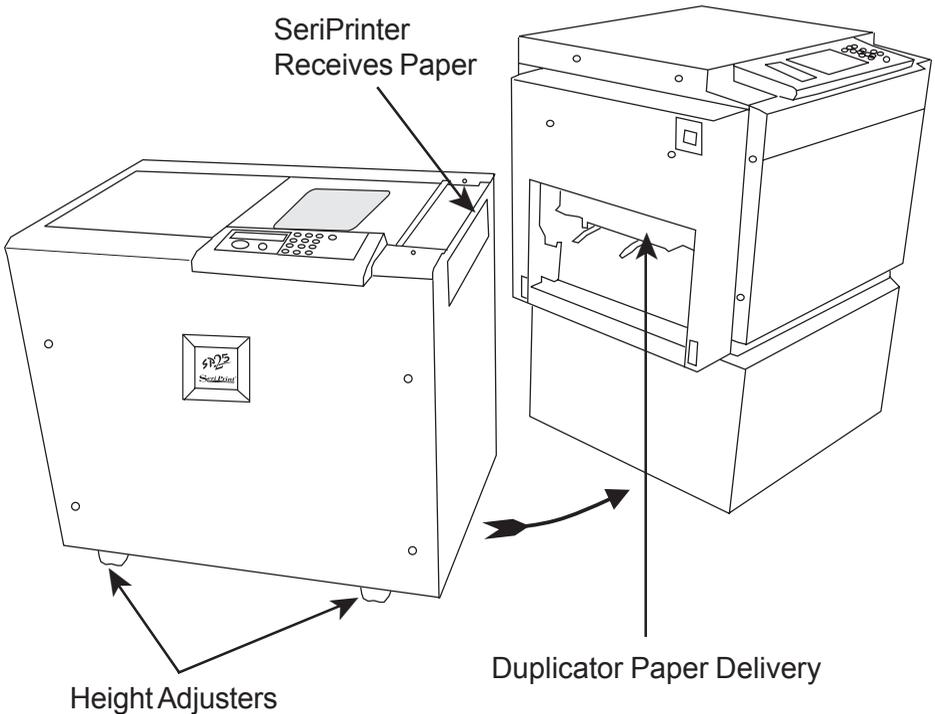
INTRODUCTION

The SeriPrinter System produces dry printed output, similar to a copier. This is as a result of its unique and patented fixing system. This enables the user to print on a wide variety of paper, card and certain coated stock including vinyl.

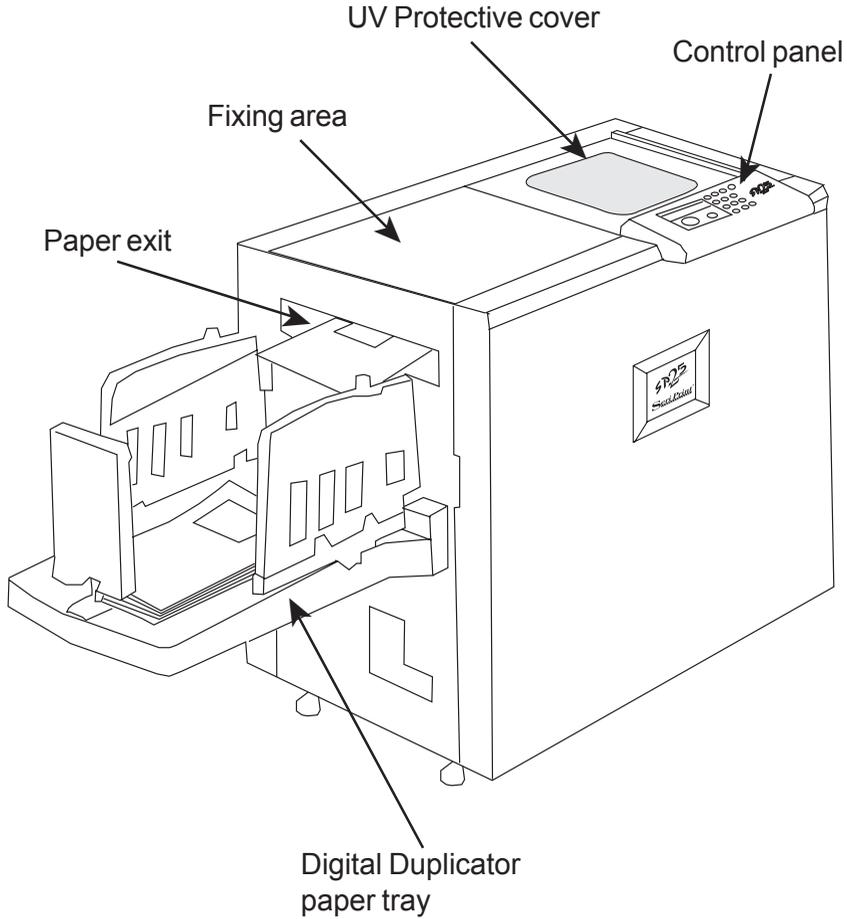
The SeriPrinter is a freestanding unit which, operates in conjunction with the Ricoh family of duplicators. No electrical connections to the duplicator are required. The Model 25 is positioned at the paper exit side of the duplicator, after removing the paper delivery tray and repositioning it on the delivery side of the Model 25.

Once the Seriprinter is set up an extended range of paper and card stocks can be printed on. This includes vinyl and certain coated stock which traditional duplicator ink can not dry on.

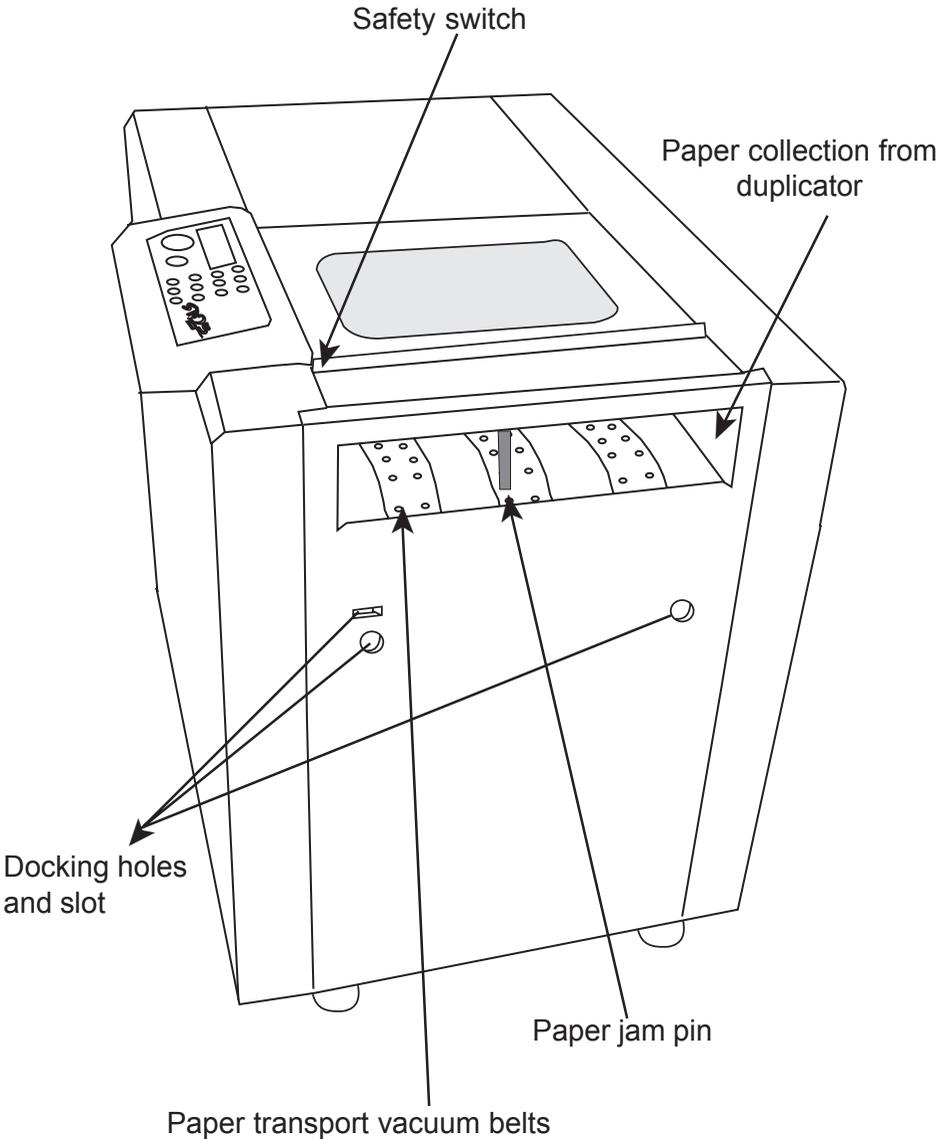
In addition a wide range of ink colors are available with the Model 25. This includes white, varnish, and a comprehensive range of mixed colors.



MACHINE (Final paper delivery view)



MACHINE (Duplicator delivery view)



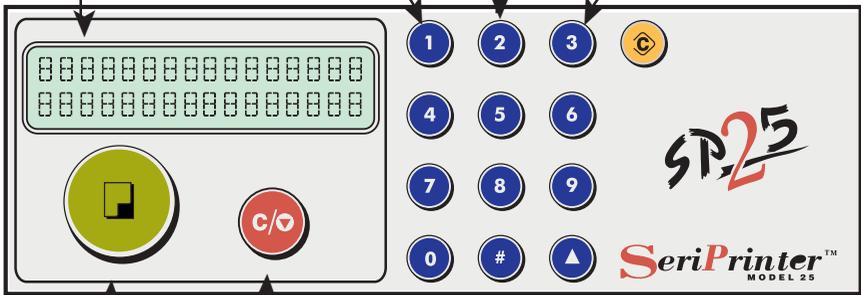
OPERATION PANEL

Machine status LCD

Decrease
Manual Speed

Increase
Manual Speed

Manual Speed
Control ON &
OFF



On Button

Off Button

Service Buttons

WHERE TO PUT THE SERIPRINTER.

Your machines's location should be carefully chosen because environmental conditions greatly affect it's performance.

Environmental Conditions

Optimum environmental conditions

Caution

- **Keep the equipment away from humidity and dust. Otherwise a fire or an electric shock might occur.**
- **Do not place the equipment on an unstable or tilted surface. If it topples over, it could cause injury.**

Caution

- **If you use the equipment in a confined space, make sure there is a continuous air turnover. Alternatively, an extraction tube can be fitted to vent the SeriPrinter exhaust outside the building.**

- Make sure to locate this machine in a large well ventilated room that has an air turnover of more than 30 m³ / hr / person.
- Temperature: 10 - 30 °C, 50 - 86 °F
- Humidity: 20 - 90 % RH
- The machine must be level within 5mm, 0.2" both front to rear and left to right.

Environments to avoid

- Locations exposed to direct sunlight or strong light (more than 1500 lux).
- Locations directly exposed to cool air from an air conditioner or heated air from a heater.
- Places where the machine might be subjected to frequent strong vibration.
- Dusty areas.
- Areas with corrosive gases.

POWER ON AND OFF

This section should be read in conjunction with the Operation Panel diagram (See Page 11)

Power ON Sequence

1. The SeriPrinter should be powered on two minutes before printing commences on the duplicator.
2. Switch on the SeriPrinter's main switch, located under the paper delivery tray. The display panel will show lamp hours and machine status: *idle*.
3. Press the SeriPrinter's large green ON button, located below the display panel. The belts will start and after approximately 15 seconds the lamps will turn on. The status: *warming* will be displayed with the remaining time. After warming has completed the status: *Ready Low Power* will be displayed.

The SeriPrinter is now ready to receive paper from the duplicator.

Power OFF Sequence:

1. Press the Red OFF button. The lamps and belts will go off. The display panel will indicate that the machine is - *Switching off* - (and the time before the machine shuts down will be shown in seconds on the display panel). The cooling process will commence. After cooling is complete the LCD will display: *Lamp hours and machine status: idle*.

CAUTION:

Do Not power OFF at the main switch or plug switch before the cooling process has completed.

BASIC OPERATION.

Before proceeding with operating the SeriPrinter. The following important points should be observed.

1. Installation.

The SeriPrinter installation procedure must have been complete by a trained service technician using the SP25 installation manual.

2. SeriDrums.

Only SeriDrums should be used in the Digital Duplicator when a SeriPrinter has been installed.

- SeriDrums are identified by a red drum handle.
- SeriInk is light and heat sensitive. Store in a cool dark place.
- **DO NOT EXPOSE A SERIDRUM TO DIRECT SUNLIGHT.**
- When a SeriDrum is not in use, it should be stored in its box.
- A SeriDrum should never be left without a master whether it is in the Digital Duplicator or in a box. This will increase the life of the screens on the drum.
- When a SeriDrum will be stored for a period longer than 5 days, unclamp the section of the master material secured by the clamp.
- When a SeriDrum will be stored for a period longer than 4 weeks, make a a master with no image on the drum and unclamp the section of the master material secured by the clamp.

3. Operation.

1. Follow the power ON sequence for the SeriPrinter detailed in the previous section. Printing can commence once the display panel indicates machine status : *READY*
3. Set the paper exit tray to the paper size in the duplicator paper feed tray.
4. Insert a SeriDrum into duplicator. Refer to the Digital Duplicator's operators manual for correct insertion and removal of a drum.
5. Refer to the Digital Duplicator's operators manual for Preparation and Standard Printing Operation.
6. Follow the power OFF sequence when printing is complete. Detailed in the previous section.

Note:

Changing speed on the duplicator will result in automatic speed adjustment on the SeriPrinter.

To release paper jams on the SeriPrinter (See Page 17)

Energy Saving:

After more than 10 seconds of inactivity the SeriPrinter will automatically slow down the motor to save energy and display the message “Ready Low Power”.

After 30 minutes of inactivity the SeriPrinter will display a warning message that it will turn off. Unless a page is printed the SeriPrinter will turn off after displaying the warning message for 5 minutes. The default power off time can be changed or disabled by a Service Technician to suit the individual operator.

Speed Control:

Automatic - This is the default speed control mechanism. The SeriPrinter will automatically adjust its belt speed to match the duplicator print speed.

Manual - To set the SeriPrinter to manual speed control press the “3” on the numerical pad of the control panel. The LCD will display the current speed. To increase the speed press “2” and to decrease press “1”. To exit manual speed control press the “3” again.

Note: If the manual speed is set slower than the speed of the Digital Duplicator a paper jam will occur.

Master Eject Box.

The Master Eject box should be emptied once a day.

Note: If this is not done the master eject box will be difficult to empty.

4. Undocking and Docking.

The SeriPrinter is physically attached to the Digital Duplicator. This is called the docking mechanism. In order to release the docking mechanism there is a button located on the rear panel of the SeriPrinter on the side where the machines are docked. Press this button firmly and **pull the Digital Duplicator away from the SeriPrinter.**

The SeriPrinters height will have been set using its adjustable legs. Therefore the wheels will not be on the ground. If the SeriPrinter is pulled or pushed away from the Digital Duplicator the legs could be damaged or broken.

In order for a Digital Duplicator to be docked correctly onto a SeriPrinter the height of the SeriPrinter must be adjusted correctly. Ensure this procedure is done by a trained service technician.

INK

1. SeriInk is light and heat sensitive and should be stored in a cool, dark place.
2. There are 13 Base colours which are used to make up most shades in the Pantone color chart. 7 Standard colors are available. Refer to Colour Guide.
3. SeriInk is not available in fluorescence or metallic.
4. SeriInk can be used with thermographic powder.
5. SeriInk will print and be touch dry on gloss vinyl (can be scratched off).
6. SeriInk will dry on gloss paper, but solid areas will print better on matt paper.
7. If a drum has not been used in over 1 week remove ink cartridge and shake before use.
8. To print CMYK use Seri Mon Blue (C) + Seri Magenta (M) + Seri Primrose Yellow (Y) + Seri Black (B)
9. Some advantages of quick drying ink:
 - Less dot gain
 - No set off
 - No smudging
 - Finishing equipment needs less cleaning
 - Less paper cockling gives better registration
 - Vibrant colours
 - Multi pass prints double sided

Accessories

Scale (2 different)

EDP Code List

Special matched colours - contact the local Dealer for information.

WHAT TO DO IF SOMETHING GOES WRONG

1. **Paper jam in SeriPrinter:**

If a paper jam occurs in the SeriPrinter the lamps and belts will switch off.

The SeriPrinter Jam Pin will activate blocking paper from exiting the duplicator.

The duplicator will detect that paper can not exit and will stop printing. The duplicator will show a Paper Jam error..

Open the cover and remove jammed paper. Also remove jammed paper from the duplicator.

Close the cover. Wait for SeriPrinter to complete recovery and warming. Resume printing.

The SeriPrinter will not reset the Jam if the cover is not opened and closed.

2. **How to avoid paper jams in SeriPrinter:**

- a) Ensure there is no obstruction when paper exits the duplicator.
- b) Ensure there is no obstruction when paper exits the SeriPrinter.
- c) Ensure the Paper delivery tray is not full.
- d) Ensure the SeriPrinter is docked correctly to the Digital Duplicator.
- e) Only print from the Duplicator when the SeriPrinter has completed warming process.

3. **Paper Jam message.**

After detecting a paper jam the SeriPrinter will display a message indicating where the Jam occurred.

If the Jam occurred between the paper exit of the duplicator and the paper entry point of the SeriPrinter then “Paper Jam 1, Vacuum Bed Entry.” will be displayed.

If the Jam occurred in front of the SeriPrinter lamp box then “Paper Jam 2, Lamp Box Entry” will be displayed.

If the Jam occurred at the exit of the SeriPrinter lamp box then “Paper Jam 3, Lamp Box Exit” will be displayed.

If the paper entered the SeriPrinter lamp box but did not exit the lamp box then “Paper Jam 4, Lamp Box” will be displayed.

PRINTING TIPS

1. Slower print will produce better solids. Be sure that the ink being used is not a process ink, as process inks will not render good solids. Check that the paper or card surface is not too rippled for the ink to fill in properly.
2. The type of paper used to print your color work will have a substantial effect on the accuracy of colour registration. The most accurate register is achieved on a matt surfaced 120 gsm paper.
3. When printing multiple passes do not leave your print run to stand overnight before completing all passes. The paper may take in moisture and expand before the next morning making register impossible for additional colours.
4. Make use of trapping and overprinting of black keylines around full colour images.
5. Try to avoid placing elements requiring tight register at opposite ends of the paper. Paper skewing is exaggerated over the distance the elements are apart.
6. Make sure the leading edge of the paper is not damaged or curled.
7. When stacking the paper in the paper feed unit of the duplicator ensure that the stack is neat and straight.
8. Ensure that the side paper guides are firmly set and the paper is not set askew in the feed unit.
9. Print on A4\letter size rather than A3\11x17 to improve spot color registration.
10. Smudging on the leading edge and corners could be due to very heavy ink coverage in these areas. To remove the smudging reduce the ink coverage or rotate the image by 180 degrees so that the heavy coverage is no longer on the leading edge.

Dealer information

**For further information visit:
www.seriprinter.com**