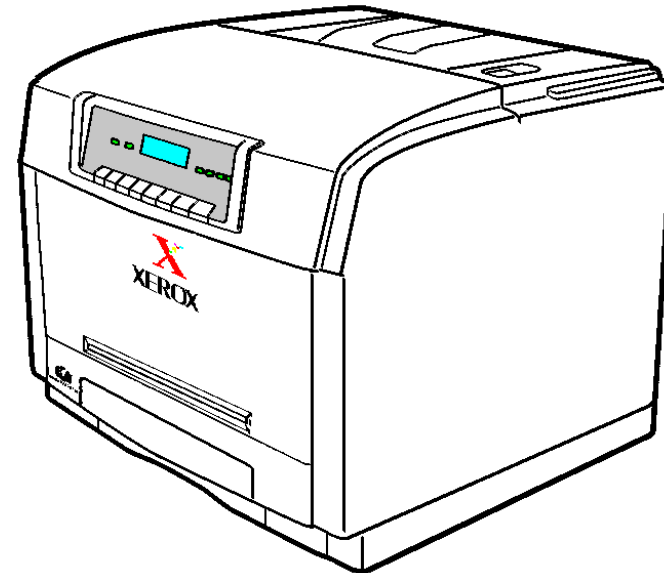


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***DocuPrint C55/C55mp/[NC60]***  
***Color Laser Printer***  
***(50/60 Hz)***  
***Service Manual***



**CAUTION**

*Certain components in the DocuPrint C55/C55mp/[NC60] Color Laser Printers are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.*

## NOTICE

“All Service documentation is supplied to Xerox external customers for informational purposes only. Xerox Service Documentation is intended for use by certified, product trained personnel only. Xerox does not warrant or represent that such documentation is complete, nor does Xerox represent or warrant that it will notify or provide to such customer any future changes to this documentation. Customer performed service of equipment, or modules, may affect the warranty offered by Xerox with respect to such equipment. You should consult the applicable warranty for its terms regarding customer or third party provided service. If the customer services such equipment, modules, components or parts thereof, the customer releases Xerox from any and all liability for the customer actions, and the customer agrees to indemnify, defend and hold Xerox harmless from any third party claims which arise directly or indirectly from such service.”

Prepared by:  
Xerox Corporation  
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780 Salt Road  
Webster, New York 14580

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## CLASS 1 LASER PRODUCTS

This product is certified as a Class 1 Laser product and complies with DHHS Laser-Radiation Standards, 21 CFR Chapter 1 Subchapter J.

### WARNING

***Use of controls, adjustments, or performances of procedures other than those specified in this manual may result in hazardous radiation exposures.***

The C55/C55mp/[NC60] each contain an invisible laser. There is no visual indication that the laser beam is present. During servicing, the C55/C55mp/[NC60] remain a Class 1 product because of the interlock system. Do not attempt to cheat the interlock switches on this printer.

<b>Product</b> DocuPrint C55/C55mp/[NC60]	<b>Title</b> Service Manual	<b>Part Number</b> 701P14760	<b>Date</b> February 1999
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# INTRODUCTION

## ABOUT THIS MANUAL

This manual is part of a multinational documentation system which includes Training.

This manual contains information that applies to:

- **USCO**
- **XE**
- **XCL**
- **ACO**

This service manual covers both the C55 and NC60 product families.

Unique NC60 directions will be given in [ ]s. For example:

Press the **On Line [0]** key.

The **On Line** key is unique to the C55 family and the **[0]** key is unique to the NC60.

If the entire procedure is unique to a product family, it will be noted at the top of the page and in the footer at the bottom of the page.

“USCO” references apply to 115 Volt printers.

“XE” references apply to 220/240 Volt printers.

“Dry Ink” means the same as “Toner” and “Tag” means the same as “Mod”.

## ORGANIZATION

This manual is divided into seven sections organized as follows:

A Publications comment sheet is provided at the end of this manual.

## Section 1 - SERVICE CALL PROCEDURES

This section contains the following:

- Call Flow Instructions
- Initial Actions
- System Checks
- Every Call Activities
- Scheduled Maintenance
- Final Action

### Call Flow

The call flow chart shows you how to conduct the service call.

### Initial Actions

The initial actions suggests how to collect data necessary to proceed with the service call.

### System Checks

The System Checks procedures details the steps for effective repair and verification of repair of problems found in Initial Action.

### Every Call Activities

These are cleaning and maintenance activities which are performed on every call.

### Scheduled Maintenance

Scheduled Maintenance consists of checking the life remaining on the CRUs.

### Final Action

Final Action ensures that image quality is acceptable, and that printer performance and appearance is satisfactory. Details are included for completing administrative tasks and closing out the service call.

## Section 2 - STATUS INDICATOR REPAIR ANALYSIS PROCEDURES (RAPs)

This section contains the Repair Analysis Procedures (RAPs) necessary to repair faults other than image quality faults.

## Section 3 - IMAGE QUALITY REPAIR ANALYSIS PROCEDURES (RAPs)

This section contains the Repair Analysis Procedures (RAPs) necessary to repair image quality faults.

## Section 4 - REPAIR/ADJUSTMENT PROCEDURES

This section contains the Repair and Adjustment procedures for the printer. All unique procedures will be identified as follows:

- **USCO**
- **XE**

## Section 5 - PARTS LIST

This section contains exploded view drawings and referenced replaceable parts lists for the Printer.

## Section 6 - GENERAL PROCEDURES

This section contains Diagnostic procedures, Menus, Product Specifications, ESS/IOT test patterns, and other General Procedures.

## Section 7 - WIRING DATA

This section contains Block Schematic Diagrams (BSDs), Plug/Jack/PWB Location Diagrams and wiring diagrams.

## HOW TO USE THIS MANUAL

Section 1, Service Call Procedures will direct you to each section of the manual necessary to perform a service call.


You will begin with Initial Actions which suggest how to collect problem symptoms and evidence to be used in the next section, the System Checks Section.

Details in the System Checks are designed to assist you in classifying, repairing and verifying the repair of the problem. From here, you may be directed to any of the other six sections of the service manual depending on the symptoms observed and the results of suggested tests. After a repair has been verified (or during a repair activity) instructions are included to direct you into Every Call Activities.

## REFERENCE SYMBOLOGY

Reference Symbology provides supportive data for Repairs, Adjustments, and the RAPs. The symbols that refer to this supportive data are shown in the paragraphs that follow.

*Note:*

 This symbol is used to refer to notes, usually found on the same page.






### Parts Lists

#### PL 2.4 (example)




In the example above, the parts list reference and the exploded view drawing would be found in Section 5 on sub-section 2.4.


Descriptions of commonly used graphic symbols are included in order to aid troubleshooting when using the circuit diagrams.


### Switches/Relays


-  Safety interlock switch, circuit open.
-  Safety interlock switch, circuit closed.
-  Switch/relay with momentary contacts shown normally open.
-  Switch/relay with momentary contacts shown normally closed.
-  Magnetically actuated Switch.

### Miscellaneous Symbols

-  A flag that identifies a wire that has been referred to in the text.
- [ 8-2 ]** Indicates a Diagnostic Code used to check a particular component.
-  Identifies a test point, test hole or test stake on a PWB.
-  Auditron/Key Counter connection.

 This symbol, used with a number, indicates that the actual number may be equal to or very near the value of the designated number.

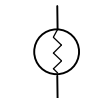
 Triac, used to switch AC power.

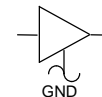
 Light Emitting Diode (LED).

 Led/Phototransistor Sensor.



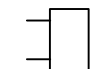
 Motor.

 Thermistor Bead, used to sense temperature.


 A Driver which is used to switch on DC Components.


 Analog to Digital Converter.


 Relay


 Solenoid


## Signal Continuation/Flow


 Indicates the continuation of a signal line interrupted in a horizontal direction.


 Represents the continuation of a standby power line interrupted in the vertical direction. In all cases, the supply is from Standby Power

 Indicates a feedback signal.


 Indicates a common splice of wires.


 <sup>P/157</sup>  
—6— Indicates a common splice of wires at a pin.

 Indicates the direction of signal flow.

 Indicates that the wire continues to the adjacent page.

## Tag Identification

 This **WITH TAG** Symbol is used to identify the components or configuration that are part of a printer change covered by the Tag number.

 This **WITHOUT TAG** Symbol is used to identify the components or configuration that are not part of a printer change covered by the Tag number