

NP6218

SERVICE MANUAL

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INTRODUCTION

This Service Manual contains the basic facts and figures about the plain paper copier NP6218, and is compiled to serve as a handy reference for servicing the machine in the field.

The NP6218 is designed to enable fully automated copying work and may be configured with the following accessories:

1. Cassette Feeding Module-B2*
2. Cassette Feeding Module-A2*
3. Control Card IV N
4. ADF-E1
5. Staple Sorter B2/D1
6. MS-B1
7. Remote Diagnostic Device II

This manual is limited to the descriptions of the NP6218, Cassette Feeding Module-B2/Cassette Feeding Module-A2.

* May not be available in some areas but discussed in this manual.

This Service Manual covers the copier only, and consists of the following chapters:

- Chapter 1 *General Description* introduces the copier's features and specifications, shows how to operate the copier, and explains how copies are made.
- Chapter 2 *Basic Operation* provides outlines of the copier's various mechanical workings.
- Chapter 3 *Exposure System* discusses the principles of operation used for the copier's lens drive unit and scanner drive unit. It also explains the timing at which these drive units are operated, and shows how they may be disassembled/assembled and adjusted.
- Chapter 4 *Image Formation System* discusses the principles of how images are formed. It also explains the timing at which the various units involved in image formation are operated, and shows how they may be disassembled/assembled and adjusted.
- Chapter 5 *Pick-Up/Feeding System* explains the principles used from when copy paper is picked up to when a copy is delivered in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 6 *Fixing System* explains the principles used to fuse toner images to transfer media in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 7 *Externals/Auxiliary Mechanisms* shows the copier's external parts, and explains the principles used for the copier's various control mechanisms in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 8 *Installation* introduces requirements for the site of installation, and shows how the copier may be installed using step-by-step instructions.

Chapter 9 *Maintenance and Servicing* provides tables of periodically replaced parts and consumables/durables and scheduled servicing charts.

Chapter 10 *Troubleshooting* provides tables of maintenance/inspection, standards/adjustments, and problem identification (image fault/malfunction).



Appendix contains a general timing chart and general circuit diagrams.

In addition to the above chapters, this SERVICE MANUAL contains a set of appendixes consisting of a general timing chart and general circuit diagrams.

A separate document entitled SERVICE HANDBOOK is also available for troubleshooting problems in the copier.

The following rules apply throughout this volume:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive—where a signal name accompanies the symbol , the arrow indicates the direction of the electric signal.

The expression “turn on the power” means flipping on the power switch, closing the front door, and closing the delivery unit door, which will result in supplying the machine with power.

2. In the digital circuits, ‘1’ is used to indicate that the voltage level of a given signal is “High,” while ‘0’ is used to indicate “Low.” (The voltage value, however, differs from circuit to circuit.)

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The contents of this manual may be updated from time to time to reflect improvements rendered to the copier; a Service Information bulletin will be issued as necessary to cover major changes.

All service persons are expected to be thoroughly familiar with the information contained in this manual, SERVICE HANDBOOK, and Service Information bulletins, for quick response to the user’s needs.

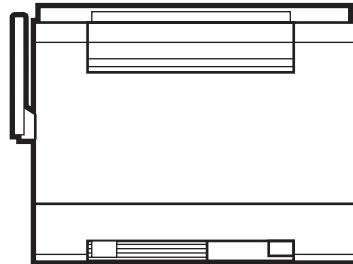
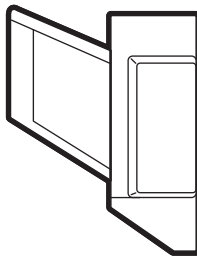
System Configuration

The NP6218 may be configured with the following systems options:



ADF-E1

Sends originals one by one from a stack set on its tray



Control Card IV N



Allows the user to control copy volume.

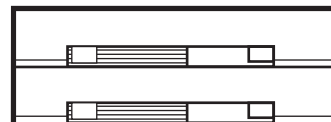
Stapler Sorter B2/D1, MS-B1

Automatically sorts or (page collation) or groups up to 10 sets of copies; with the sorting function, the sorted copies may automatically be stapled. (Not applicable to MS-B1.)



Cassette Feeding Module-B2

Adds an additional cassette.



Cassette Feeding Module-A2

Adds additional two cassettes.

1. GENERAL DESCRIPTION

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