2. Reference Information

This chapter provides reference information for this service manual consisting of the tool list, a list of acronyms and abbreviations, and examples of test patterns.

2.1 Tool for Troubleshooting

The following tools are recommended for performance of the troubleshooting functions described in this service manual.

1. DVM (Digital Volt Meter)
   Standard: Indicates more than 3 digits.

2. Tweezers
   Standard: For general home use, small type.

3. Driver
   Standard: "-" type, "+" type (M3 long, M3 short, M2 long, M2 short).

4. Cotton Swab
   Standard: For general home use, for medical service.

5. Cleaning Equipment IPA (Isopropyl Alcohol) dry cloth or a liquid neutral detergent.

6. Software (Driver) installation CD ROM
5. Disassembly and Reassembly

5.1 General Precautions on Disassembly

When you disassemble and reassemble components, you must use extreme caution. The close proximity of cables to moving parts makes proper routing essential.

If components are removed, any cables disturbed by the procedure must be restored as close as possible to their original positions. Before removing any component from the machine, note the cable routing that will be affected.

Whenever servicing the machine, you must perform the following:

1. Check to verify that documents are not stored in memory.
2. Be sure to remove the toner cartridge before you disassemble parts.
3. Unplug the power cord.
4. Use a flat and clean surface.
5. Replace only with authorized components.
6. Do not force plastic-material components.
7. Make sure all components are in their proper position.
8. Observe ESD precautions when handling sensitive electronic components.

Releasing Plastic Latches

Many of the parts are held in place with plastic latches. The latches break easily; release them carefully.

To remove such parts, press the hook end of the latch away from the part to which it is latched.