

**A3/11" x 17" Tray Type 9001  
Machine Code: D482**

**Field Service Manual**

May, 2016














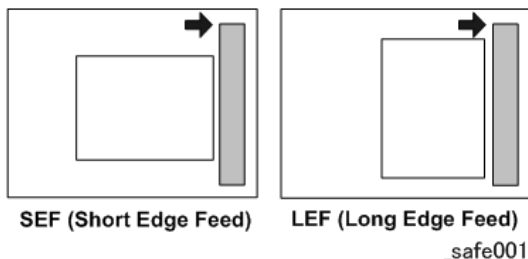
# Safety, Conventions, Trademarks

## Conventions

### Common Terms

This is a list of symbols and abbreviations used in this manual.

Symbol, Abbreviation	Meaning
	Blue screw
	Bushing
	C-ring
	Connector
	E-ring
	Flexible film cable
	Harness clamp
	Hook
	Screw
	Spring
	Timing belt
JG	Junction Gate
LEF	Long Edge Feed
SEF	Short Edge Feed
TE	Trailing Edge of paper



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## Warnings, Cautions, Notes

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In this manual, the following important symbols and notations are used.

### **WARNING**

- A Warning indicates a potentially hazardous situation. Failure to obey a Warning could result in death or serious injury.

### **CAUTION**

- A Caution indicates a potentially hazardous situation. Failure to obey a Caution could result in minor or moderate injury or damage to the finisher or other property.

### **Important**

- Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.

### **Note**

- This information provides tips and advice about how to best service the machine.

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## General Safety Instructions

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For your safety, please read this manual carefully before you use this product. Keep this manual handy for future reference.

### **Safety Information**

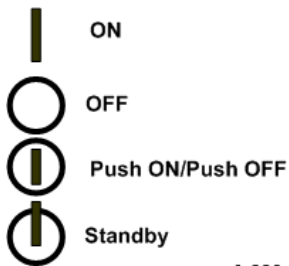
Always obey the following safety precautions when using this product.

### **Safety During Operation**

In this manual, the following important symbols and notations are used.

### **Switches and Symbols**

Where symbols are used on or near switches on machines for Europe and other areas, the meaning of each symbol conforms with IEC60417.



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## Responsibilities of the Customer Engineer

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### Reference Material for Maintenance

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- Maintenance shall be done using the special tools and procedures prescribed for maintenance of the machine described in the reference materials (service manuals, technical bulletins, operating instructions, and safety guidelines for customer engineers).
- In regard to other safety issues not described in this document, all customer engineers shall strictly obey procedures and recommendations described the “CE Safety Guide”.
- Use only consumable supplies and replacement parts designed for use of the machine.

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## Before Installation, Maintenance

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### Power

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#### **WARNING**

- Always disconnect the power plug before doing any maintenance procedure. After switching off the machine, power is still supplied to the main machine and other devices. To prevent electrical shock, switch the machine off, wait for a few seconds, then unplug the machine from the power source.
- Before you do any checks or adjustments after turning the machine off, work carefully to avoid injury. After removing covers or opening the machine to do checks or adjustments, never touch electrical components or moving parts (gears, timing belts, etc.).
- After turning the machine on with any cover removed, keep your hands away from electrical components and moving parts. Never touch the cover of the fusing unit, gears, timing belts, etc.

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## Installation, Disassembly, and Adjustments

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### **WARNING**

- After installation, maintenance, or adjustment, always check the operation of the machine to make sure that it is operating normally. This ensures that all shipping materials, protective materials, wires and tags, metal brackets, etc., removed for installation, have been removed and that no tools remain inside the machine. This also ensures that all release interlock switches have been restored to normal operation.
- Never use your fingers to check moving parts causing spurious noise. Never use your fingers to lubricate moving parts while the machine is operating.

## Special Tools

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### **CAUTION**

- Use only standard tools approved for machine maintenance.
- For special adjustments, use only the special tools and lubricants described in the service manual. Using tools incorrectly, or using tools that could damage parts, could damage the machine or cause injuries.

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## During Maintenance

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### General

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### **CAUTION**

- Before you begin a maintenance procedure: 1) Switch the machine off, 2) Disconnect the power plug from the power source, 3) Allow the machine to cool for at least 10 minutes.
- Avoid touching the components inside the machine that are labeled as hot surfaces.

## Safety Devices

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### **WARNING**

- Never remove any safety device unless it requires replacement. Always replace safety devices immediately.
- Never do any procedure that defeats the function of any safety device. Modification or removal of a safety device (fuse, switch, etc.) could lead to a fire and personal injury. Always test the operation of the machine to ensure that it is operating normally and safely after removal and replacement of any safety device.

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- For replacements use only the correct fuses or circuit breakers rated for use with the machine. Using replacement devices not designed for use with the machine could lead to a fire and personal injuries.

## Organic Cleaners

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### CAUTION

- During preventive maintenance, never use any organic cleaners (alcohol, etc.) other than those described in the service manual.
- Make sure the room is well ventilated before using any organic cleaner. Use organic solvents in small amounts to avoid breathing the fumes and becoming nauseous.
- Switch the machine off, unplug it, and allow it to cool before doing preventive maintenance. To avoid fire or explosion, never use an organic cleaner near any part that generates heat.
- Wash your hands thoroughly after cleaning parts with an organic cleaner to contamination of food, drinks, etc. which could cause illness.
- Clean the floor completely after accidental spillage of silicone oil or other materials to prevent slippery surfaces that could cause accidents leading to hand or leg injuries. Use "My Ace" Silicone Oil Remover (or dry rags) to soak up spills. For more details, please refer to Technical Bulletin "Silicone Oil Removal" (A024-50).

## Ozone Filters

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### CAUTION

- Always replace ozone filters as soon as their service life expires (as described in the service manual).
- An excessive amount of ozone can build up around machines that use ozone filters if they are not replaced at the prescribed time. Excessive ozone could cause personnel working around the machine to feel unwell.

## Power Plug and Power Cord

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### WARNING

- Before servicing the machine (especially when responding to a service call), always make sure that the power plug has been inserted completely into the power source. A partially inserted plug could lead to heat generation (due to a power surge caused by high resistance) and cause a fire or other problems.
- Always check the power plug and make sure that it is free of dust and lint. Clean it if necessary. A dirty plug can generate heat which could cause a fire.

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- Inspect the length of the power cord for cuts or other damage. Replace the power cord if necessary. A frayed or otherwise damaged power cord can cause a short circuit which could lead to a fire or personal injury from electrical shock.
  - Check the length of the power cord between the machine and power supply. Make sure the power cord is not coiled or wrapped around any object such as a table leg. Coiling the power cord can cause excessive heat to build up and could cause a fire.
  - Make sure that the area around the power source is free of obstacles so the power cord can be removed quickly in case of an emergency.
  - Make sure that the power cord is grounded (earthed) at the power source with the ground wire on the plug.
  - Connect the power cord directly into the power source. Never use an extension cord.
  - When you disconnect the power plug from the power source, always pull on the plug, not the cable.

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## After Installation, Servicing

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### Disposal of Used Items

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#### CAUTION

- Always dispose of used items (developer, toner, toner cartridges, OPC drums, etc.) in accordance with the local laws and regulations regarding the disposal of such items.
- To protect the environment, never dispose of this product or any kind of waste from consumables at a household waste collection point. Dispose of these items at one of our dealers or at an authorized collection site.

### Points to Confirm with Operators

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At the end of installation or a service call, instruct the user about use of the machine. Emphasize the following points.

- Show operators how to remove jammed paper and troubleshoot other minor problems by following the procedures described in the operating instructions.
- Point out the parts inside the machine that they should never touch or attempt to remove.
- Confirm that operators know how to store and dispose of consumables.
- Make sure that all operators have access to an operating instruction manual for the machine.
- Confirm that operators have read and understand all the safety instructions described in the operating instructions.



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- Demonstrate how to turn off the power and disconnect the power plug (by pulling the plug, not the cord) if any of the following events occur: 1) something has spilled into the product, 2) service or repair of the product is necessary, 3) the product cover has been damaged.
  - Caution operators about removing paper fasteners around the machine. They should never allow paper clips, staples, or any other small metallic objects to fall into the machine.

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## **Safety Instructions for this Machine**

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1. The installation must be done by trained service technicians.
2. This machine weighs 92 kg. (202.9 lb.). At least four persons are required to remove the machine from its pallet and position it for installation.
3. To prevent fire hazards never use flammable solvents around the machine.
4. Never place any object on the machine.
5. If anything falls into the machine, turn off the main power switch on the right side of the machine, then disconnect the power cord from the power source.
6. Locate the machine on a sturdy flat surface where it will not be exposed to excessive vibration.
7. To avoid fire hazard, confirm that the ventilation ports are not blocked, so air can flow freely.
8. Gas generated by the molten glue can irritate the eyes, throat, and nose. The machine should always be used in a well ventilated room.
9. To avoid the dangers of fire and electrical shock, make sure that the machine is never exposed to:
  - Excessive high temperatures and/or humidity
  - Dust
  - Water
  - Direct sunlight
  - Open flame
  - Corrosive gases

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# 1. Replacement and Adjustment

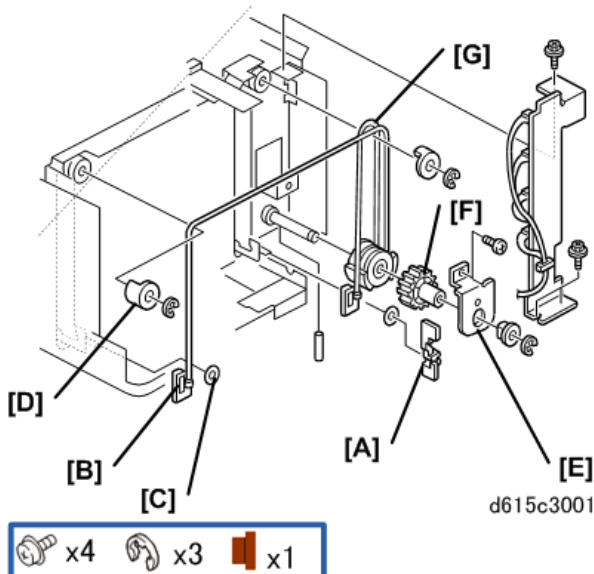
## Lift Wire Replacement

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### Removing the Lift Wire

The procedures for front and rear wire removal are the same.

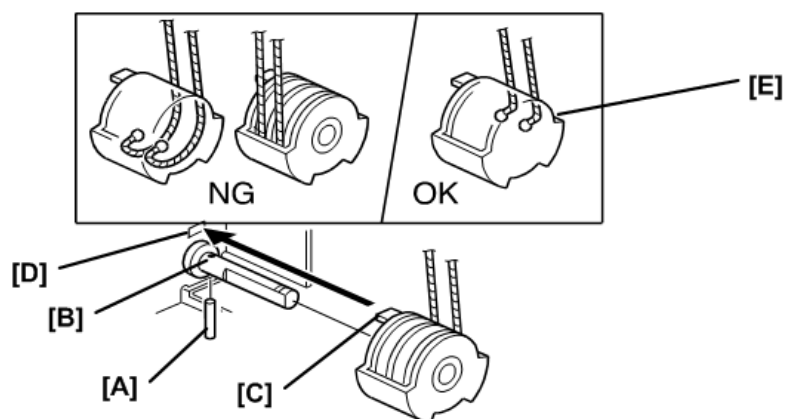
1. Remove the A3/DLT tray from the machine.
2. Remove inner cover (⚙️ x2)
3. Remove in this order:
  - [A] Sensor bracket
  - [B] Wire stoppers
  - [C] Wire stopper rings
  - [D] Wire covers x 2
  - [E] Bracket
  - [F] Gear
  - [G] Bottom plate lift wire



### Installing the Lift Wire

1. Put the positioning pin [A] in hole [B]

2. Fit the projection [C] into slot [D].
3. Attach the wire as shown [E].
4. Make sure that the wires are not crossed.



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# 2. Detailed Descriptions

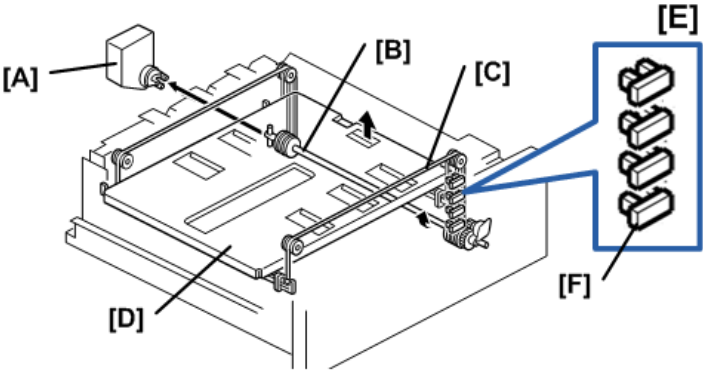
## Mechanism

### Specifications

Paper Size	A3, B4, 11" x 17", 8.5" x 14", A4 SEF, A4 LEF, 8.5" x 11" SEF, 11" x 8.5" LEF
Paper Weight	52 to 163 g/m <sup>2</sup> 16 to 40 lb. Bond 50 to 60 lb. Cover 90 lb. Index (no Tab)
Tray Capacity	1,000 sheets (80 g/m <sup>2</sup> , 20lb)

### Main Mechanism

- 1. Lift motor [A] drives shaft and pulleys [B] which operate the tray wires [C] that raise the tray bottom plate [D].
- 2. An array of four paper height sensors [E] provides paper supply detection.
- 3. As each sensor is actuated, a message (percent of paper remaining) tells the operator how much paper remains.
- 4. When the bottom sensor [F] of the four sensors is actuated, the paper end message is displayed.



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