

Model: AD1 (SR210)		Date: 16-Apr-97	No: 29
Subject: MAIN CONTROL BOARD DAMAGE		Prepared by: M.Horiike	
From: QAC 2nd Field Information Dept.		Checked by: M.Iwasa	
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other (       )		

## SYMPTOM

Arcing occurs and a surge current flows into the main control board (P/N A666-5550) of the AD-1 Finisher when the power cord is plugged into the power source of the main frame (copier) while power is applied. This may result in possible damage to IC116 and /or IC110 on the main control board.

## CAUSE

The main control board has a zener diode in its 5-volt circuit which works to maintain the voltage (5V) of the circuit by passing the surge current to the ground. However, some diodes do not work effectively when a large current rushes in, and they allow voltage to rise over the tolerant voltage level for IC116 and IC110.

## SOLUTION

Another type of zener diode has been added to the main control board of the Finisher in parallel with the existing one to keep the voltage of the 5-volt line by quickly by-passing the surge current to ground. A modification bulletin will be issued later.

## ACTION REQUIRED

The appropriate installation procedure for the Finisher is clearly described in the service manual and is as follows.

### CAUTION

Unplug the copier power cord and turn off the main switch before starting the following procedure

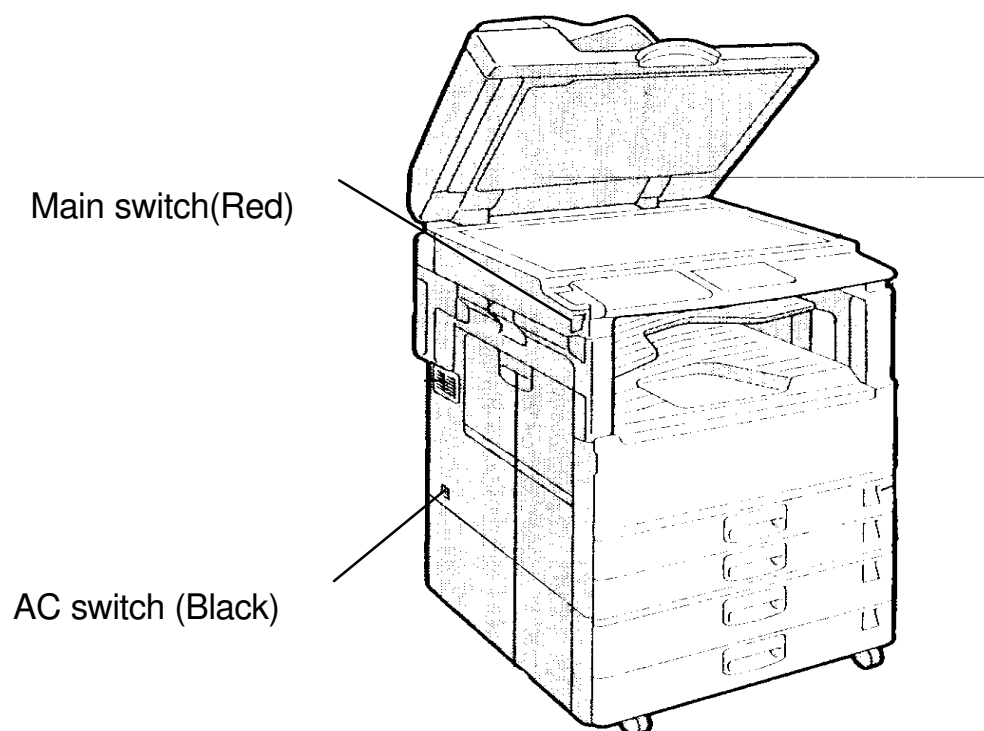
If the Finisher is installed in accordance with the proper procedure, no problems will occur.

Please make sure that both the main switch (Red) and the AC switch (Black) are turned OFF or the copier power cord is unplugged before installing the Finisher.

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**Note**

If only the main switch (Red) is turned off, power is still applied to the Finisher. The AC switch (Black) should also be turned off to shut down the power to the Finisher.