

# Technical Information Bulletin

## Grounding Plate

**Subject:** Grounding Plate  
Solution



**Date:** March 19, 2009

**Bulletin #:** 02-103

### Background Information and Discussion of Problem:

Symptoms may include: a floating ground, dirty-running machine, fuser cleaning roller building up toner quickly, and premature drum wear due to residual charge left on the drum. These symptoms may result in a reduced image quality and a decrease in the efficiency of consumable parts.

### Causes:

The cause of this problem is the intermittent ground through the drum bearing, OEM # 08053441. As the bearing ages, the grounding wire within the bearing wears, which reduces contact for ground.

### Solution(s):

NA Trading and Technology has worked with Ricoh family dealers to reduce grounding issues through the drum bearing. The NATT Grounding Plate is designed to mount on the PC Board's ground screw and provides a contact directly to the drum shaft. Testing has shown that ground can float around 2.7 volts without the grounding plate installed, yet it measured 0 volts with the plate installed.

The NA Trading and Technology Grounding Plate has been assigned part number 02037006 and is available now.

Please refer to the complete listing below for model applications.

**Ricoh\*** AF340/AF350/AF355/AF450/AF455/AF1035/AF1045/AF2035/AF2045/AF3035/  
AF3045/AF MP3500/AF MP4500

**Savin\*** 2035/2045/2235/2245/2535/2545/4035/4045/4135/4145/8035/8035e/8045/8045e/  
9935/9945

**Lanier\*** 5135/5235/5245/5435/5445/5635/5645/LD035/LD045/LD135/LD145/LD235/LD245/  
LD335/LD345

**Gestetner\*** 3235/3245/3502/3532/4235/4245/4502/4532/DSm635/DSm645/DSm735/DSm745

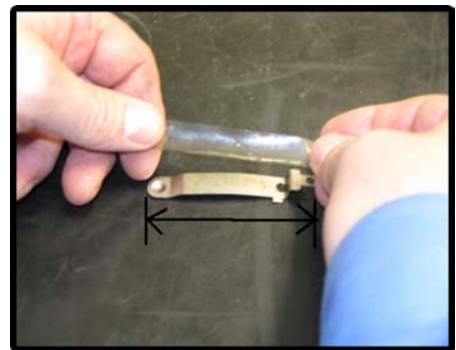
*\*Brand names are for compatibility purposes only and are property of their owners.*

# Grounding Plate Installation

- 1.) Power off and unplug machine. Remove rear cover. Remove all 3 screws from High Voltage PCB.



- 2.) Pre-cut Teflon tape long enough to cover entire length of grounding plate. High Dielectric Teflon tape can be purchased from NATT. (NA# 00038001)



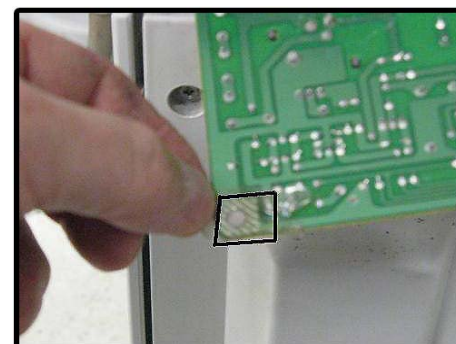
- 3.) Reuse upper screw to attach grounding plate to bracket. Ensure nipple is touching drum shaft. Cover grounding plate and screw with pre-cut Teflon tape.



**CAUTION:** Do not allow grounding plate to come in contact with the traces or leads on the board.



- 4.) Place an additional piece of Teflon tape (at least 1") over rear HV-PCB to further insulate circuit board from screw holding the grounding plate. Reinstall board with bottom two screws.



**TIP:** Remove all excess toner on and around HV-PCB before installing cover.