

TECHNICAL BULLETIN

MP 3500 Grounding Plate

NATT #: 02037006

For use in:

AF 1035/ AF 1045/ AF 2035/ AF 2045/ AF 3035/ AF 3045/ AF 340/ AF 350/ AF 355/ AF 450/ AF 455 AF MP3500/ AF MP4500/ 2035/ 2045/ 2235/ 2245/ 2545/ 4035/ 4045/ 4135/ 4145/ 8035/ 8045/ 9935 9945/ 5235/ 5245/ 5435/ 5445/ 5635/ 5645/ LD035/ LD045/ LD135/ LD145/ LD235/ LD245/ LD335 LD345/ 3235/ 3245/ 3502/ 3532/ 4235/ 4245/ 4502/ 4532/ DSm635/ DSm645/ DSm735/ DSm735e DSm745/ DSm745e

Background Information and Discussion of Problem:

Symptoms may include: a floating ground between 0 and 2.7 ohms, 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 reduced image quality and an overall decrease in the efficiency of consumable parts.

Causes:

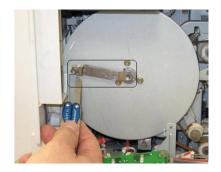
The cause of this problem is the intermittent ground through the drum bearing, OEM #: 08053441. As the bearing ages, the grounding wire within the bearing wears, which reduces contact for ground.

Solution:

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 confirms that ground measures 0 ohms with the plate installed.





Study of Drum Performance in Relation to Grounding Plate Installation

MIF Sample Size	Machines in Field
Active Field Population AF35 - MP 4500	3693
Machines with Grounding Plate Installed	427

Model Sampled	Machines in Field
Active Field Population MP 4500	164
Machines with Grounding Plate Installed	60

	MP 4500s Without Grounding Plate	MP 4500s with Grounding Plate	Results
Clicks between calls	21,676	24,240	10.6% more with grounding plate installed
OEM Drum Yield at time of service call	54,059	95,640	45.2% higher yield on OEM drums with grounding plate installed
NATT Drum Yield at time of service call	80,721	95,966	15.9% higher yield on NATT drums with grounding plate installed

When excessive toner build up and premature drum wear occur due to a floating ground, image quality and clicks between calls are reduced. Most importantly, customer satisfaction decreases.

By installing the NATT Grounding Plate, grounding issues are eliminated and clicks between calls increase.



To learn more about NA Trading and our complete line of Repair Items, contact a product specialist or visit us online today.

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