

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.



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