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IBM® 4039/4049 Remanufacturing Instructions

Oasis Imaging Products Inc. Technical Support (888) 627- 6555

Reference Information:

4039 (400 Grams)
OEM PN: 1380850
OEM Yield: 10,000@ 2.8%

4049
OEM PN: 1382100
OEM Yield: 10,000 @2.8 %

4039 High Yield (500 Grams)
OEM PN: 1380950
OEM Yield: 20,000 @ 2.8%

OEM PN: 1382150
OEM Yield: 20,000 @ 2.8%

Approximate Remanufacturing Time: 35-40 min.

Recommended Tools:
Snips (electrical cutters)
Flat head screwdriver
Jewelers flat head screwdriver
Pliers
X-acto knife
Drill
(4) 8-32 1/4" screws

Instructions:

1. Turn the cartridge upside down, with the hopper away from you. Use an X-acto knife to cut off the four plastic rivets holding the drum axle plate on. Next, drill a hole (1/8") where the plastic rivets were. (The end plate will later be secured with screws). Remove the end plate (Fig. 1).

2. Remove the 2 large springs from the rear of the lower hopper. They will remain on the lower posts on the casing (Fig. 2). Tape them to the sides of the cartridge shell to keep them out of the way.

3. Tape open the drum shutter door. Remove the small gear (next to the large helical gear) and set aside (Fig. 3). Remove the OPC by pulling the toner hopper toward the back of the cartridge (Fig. 4). **Note:** Wrap the drum in a clean, lint-free cloth and set aside in a dark area. Make sure to remove the small contact washer from the ground side of the cartridge shell.

4. On the middle right side of the cartridge, pull the plastic pin that holds the toner hopper with pin pullers or needlenose pliers (Fig. 5). With a small flathead screwdriver, pry off the small plastic bushing behind the pin.

5. Turn the cartridge so the toner hopper is toward you. On the right hand side, there is another round bushing (located inside the slot casing). Pry the bushing off with a small flathead screwdriver. **Note:** If the bushing falls inside the cartridge, it is possible to remove it later (Fig. 6).

6. To remove the hopper from the cartridge shell, locate the plastic post on the right side of the toner hopper under 2 small white gears (Fig. 7). Pull the hopper back and pry up to disengage the post from the C shaped notch (Fig. 8) and remove the hopper.

7. Use a screwdriver to pry the PCR clip out. Remove the PCR and the opposite clip. If the OEM PCR is clear, use compressed air to remove residual toner.

8. Pull the recovery blade off. Use compressed air to clean out residual toner from the waste hopper. Be sure to remove all of the old adhesive off before applying a new recovery blade.

9. If the wiperblade must be removed, use a pair of wire cutters to cut away the plastic above the wiperblade. **Note**: Do not remove too much plastic, some of it is needed to hold the new wiperblade in place. Next, pull the wiperblade out with a pair of needlenose pliers. To install the new blade insert the blade

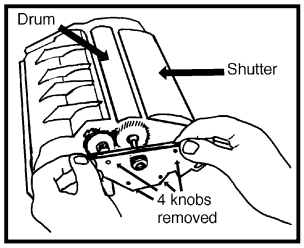

Figure 1

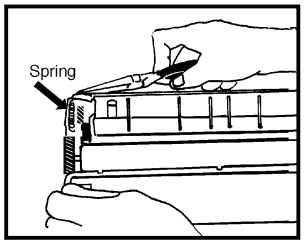

Figure 2

Figure 3

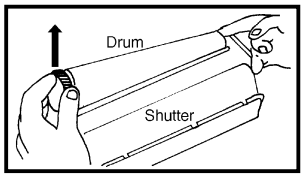

Figure 4

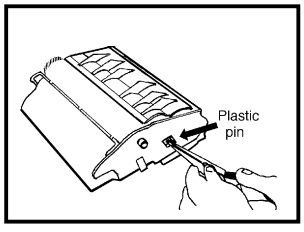

Figure 5

into the opposite notch first, then snap into the cut notch. **Note:** Do not touch the rubber part of the blade with the pliers.

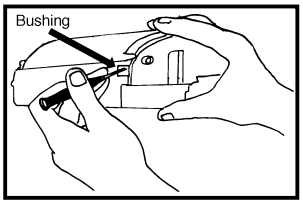

Figure 6

10. Remove the pressure spring holding the doctor blade. It must be removed carefully so it does not bend.

11. To remove the developer roller, remove both the electrical contact and the developer plug by pulling out from the hopper. Lift the developer roller up and out from the hopper housing. Clean the roller with a lint-free cloth saturated in 99% IPA. The developer roller should retain its original color, if it is darker than normal, replace it with a new one. **Note:** Do not touch the surface of the roller with your hands. Remove the white washers and inspect for kinks; replace if necessary.

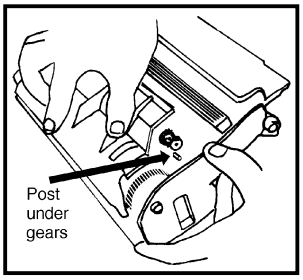

Figure 7

12. Clean all contacts with a cotton swab saturated in 99 % IPA.

13. For optimum performance it is best not to remove the doctor blade. Clean the working edge with a cotton swab and 99% IPA. **Note:** The areas around the doctor blade are prone to toner leakage. If this happens, redistribute some of the sealer from the side of the doctor blade to the small gap between the top of the doctor blade and the rubber ribs.

14. Reinstall the clean developer roller and replace the washers.

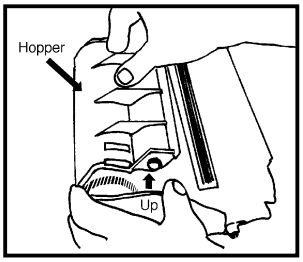

Figure 8

15. To clean and refill the toner hopper:
    Method #1: Make a cut in the top cover approximately .2"x .3" then use compressed air to clean the inside of the hopper. When you are ready to refill the cartridge, pour the toner through the cut opening. Reseal the cartridge by applying clear shipping tape over the cut hole.
    Method #2: Remove the entire clear cover and OEM tape from the cover. Use alcohol to remove all residual adhesive. Oasis has an aftermarket plastic hopper cover to place over the hopper opening. The cover has an opening in the center to provide quick and easy access for refilling the cartridge with toner. The cover is installed on the hopper with a gasket seal to form a secure barrier. A hopper seal is applied over the opening on the cover. A complete instruction guide is available for this procedure.

16. Install the clean PCR clips and the PCR.

17. Install the toner hopper unit.

17. Install the developer roller drive gear before installing the OPC.

18. Install the small contact washer on the drum ground side.

19. Pull the hopper toward the back of the cartridge and carefully install the OPC.

20. Install the side hopper pin.

21. Install the end plate and secure with 4 screws.