

HP® LaserJet® P4014/P4015/P4515/M4555 MFP, HP® LaserJet® Enterprise® 600 M601/M602/M603



CC364A/CC364X CE390A (HP 90A)/CE390X (HP 90X)

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SSS[™] 1013

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V.3.7 - 12.12

- Hook Tool (HTOOL-2)
- Curved Scraper Blade Tool (CSBTOOL)
- Lint-Free Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Pry Tool (PRYTOOL-2)
- Flat Blade Scraper Tool (FSTOOL)
- Conductive Lubricant (CONCLUBE)
- Phillips Screwdriver
- Small Slotted Screwdriver
- Needle Nose Pliers
- Dry, Filtered, Compressed Air for Cleaning
- 91-99% Isopropyl Alcohol
- Lubriplate 105™ Cartridge Lubricant (LUBE105)
- Cartridge Cleaning Workstation



64A/90A TONER HOPPER



*Arrows show where the adhesive rail clip is positioned

64A/90A and 64X/90X Mag Roller Assembly



64A/90A and 64X/90X Waste Bin Assembly



Note: There are physical differences between the two waste bins. For illustration purposes on this wireline, the 64X/90X is shown.

64X and 90X Toner Hopper



\neq Separating the Two Sections

There are physical differences between the HP® CC364A/CC364X and the HP® CE390A/CE390X cartridges. For illustration purposes, the HP® CC364X high yield cartridge is used in this instruction.

1. To begin remanufacturing, first turn the cartridge over with drum side up (Figure 1).



2. Push shutter support bar toward waste bin on the drive side to release from cartridge (Figure 2).





3. Turn the cartridge around to the contact side of the cartridge. Using a Phillips screwdriver, locate and remove the five screws on the end plate. Lift the actuator arm to locate one of the screws as shown in Figure 3.



4. Remove contact side end plate with drum shutter attached by sliding it from cartridge as shown in Figure 4.



5. Locate and remove the five screws on the gear side end plate as shown using a Phillips screwdriver (Figure 5).



6. While holding the two halves remove the gear side end plate as shown in Figure 6.



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Separating the Two Sections

7. Carefully separate the two halves (Figure 7).





Disassembling the Toner Hopper Section

1. Remove drive gear end plate by pulling it straight out as shown in Figure 8.



 Remove mag roller drive gear by sliding it off of the journal (Figure 9).



- Locate and remove two screws from the mag roller drive gear housing support plate as shown in Figure 10a. To remove the support plate, use a slotted screwdriver to gently pry the mag roller drive gear housing support plate from the mag section, as shown in Figure 10b.
 - Note: Ensure mag roller stabilizer bearing is still in the housing. If not, remove it from the mag roller and place it back into the mag roller drive gear housing support plate.



4. Using needle nose pliers, remove the toner out sensor bar on the contact side as shown in Figure 11.



- 5. Locate and remove one screw from the mag roller contact support plate (Figure 12a). To remove, use a slotted screwdriver to gently pry apart the mag roller contact support plate from the mag section as shown in Figure 12b.

Note: Ensure mag roller stabilizer bearing is still in the housing. If not, remove it from the mag roller and place it back into the mag roller contact gear housing support plate.



6. Lift the mag roller with bushings out of the toner hopper, then remove the two mag roller bushings and set aside (Figure 13).





Note: Inspect mag roller for signs of damage. For cleaning instructions, see Appendix C.

 Carefully lift the scraper tab to expose the screw and remove both screws as shown in Figure 14a. Remove the mag roller scraper tabs and set aside (Figure 14b).





Note: The screws for the doctor blade are longer than other screws and should be separated for reassembly.

8. Remove doctor blade (Figure 15). Inspect and clean with ionized, dry, filtered, compressed air and a lint-free cloth.



9. For cleaning the doctor blade, see Appendix B.



Splitting the Mag Section

- Note: Splitting the mag section is required to seal the cartridge. For detailed instructions on installing the rigid gasket seal, refer to SSS™#1011 - HP P4015/P4014/P4515 Rigid Gasket Seal.
- Insert pry tool between mag and toner hopper sections on contact end and twist gently to separate weld on each side (Figure 16a and 16b).





2. Work tool along weld (Figures 17a and 17b) to gradually separate mag section from toner hopper section without damaging the two piece mag section (Figure 17c).





Caution: <u>DO NOT</u> separate the two piece mag section from each other (Figure 18). Static Control offers a mag section gasket to repair the two piece mag section in the event that they become separated.





1. Remove toner hopper cap without damaging core. Hopper cap may be pierced and pulled using needle nose pliers (Figure 19).



 Clean the toner hopper using ionized, dry, filtered, compressed air (Figure 20).



3. Clean area around sealing surface with a lint-free cloth dampened with 91-99% isopropyl alcohol (Figure 21).



Note: There are alignment features both on the toner hopper and on the end of the rigid seal. It is suggested that you locate these before peeling the backing from the seal. 4. Place the seal so the notched corners of the seal are lined up with the sloped ridges of the toner hopper (Figure 22).



5. Carefully pull the backing away from the seal while smoothing the seal in place (Figure 23). Run your finger around the perimeter of the seal to activate the adhesive.



6. Clean the area where the adhesive rail clip is to be attached with a lint-free cloth dampened with 91-99% isopropyl alcohol (Figure 24).



Clean, Seal and Fill the Toner Hopper Assembly

7. Remove the release liner from the adhesive rail clip. Center the adhesive rail clip in position and seat the length of the rail clip against the ledge as shown in Figure 25. Press into place to activate the adhesive.





Reassembling the Mag Section

1. Using side cutters, remove the two plastic posts. Be sure to cut them flush with the housing (Figure 26a and 26b).



2. Remove old open and closed end foams from back of mag section (Figure 27a and 27b).



3. Clean toner hopper port area on the back of the mag section with 91-99% Isopropyl alcohol (Figure 28).



4. Remove the release liner and install the closed end foam onto the back of the mag section. Center the foam over ribs and against alignment marks as shown in Figure 29. Press to activate adhesive.



Note: Edge of foam should be aligned with edge of port opening.



 Remove the release liner and install the closed end foam onto the back of the mag section. Center the foam over ribs and against alignment marks as shown in Figure 30. Press to activate adhesive.



Note: Edge of foam should be aligned with edge of port opening.



 Remove the release liner and install the sealing channel rail foams onto the back of the mag section as shown in Figure 31. Overlap both open and closed end foam equally on both sides and install inside the ribs to avoid leakage.



 Fold the seal pull strip back over the toner hopper. The seal pull strip should extend beyond the contact end of the toner hopper (Figure 32).



8. Holding the mag roller section at a 45 degree angle to the toner hopper, slide the lip of the mag roller section under the ledge of the rail clip (Figure 33).



9. Separate the upper and lower mag section slightly and position one locking rail at one end of the toner hopper. With the rail on the top of the toner hopper and lower mag section flange, roll the rail down over the toner hopper flange and press into place (Figure 34). The upper mag section flange will fit over the rail.



10. Install a second rail on the opposite end (Figure 35a), and a third in the center as shown in Figure 35b. Inspect the toner hopper after installing the rails to ensure that no bowing has occurred.



Note: The mag section consists of two sections that float independently from each other. Ensure that clips are on the inner most section and the outer mag section is still free to move.



- 11. Fill the toner hopper with the approved toner and clean the area around the toner hopper port with 91-99% Isopropyl alcohol.
- 12. Install new hopper cap into toner hopper port (Figure 36c).



Reassembling the Toner Hopper Section

- Note: Inspect the foams and replace if needed. If replacement is needed for the mag roller sealing blade end foams, the inner mag roller sealing blade must also be replaced.
- 1. Remove the inner mag roller sealing blade. Remove any residual toner from the installation area as shown in Figure 37. Then clean the area with 91-99% isopropyl alcohol.



 Remove the mag roller sealing blade end foams with a curved scraper blade tool (Figures 38a and 38b). Remove any residual toner from the installation area then clean the area with 91-99% isopropyl alcohol.





3. Remove the release liner from the end foams. Using the curved scraper blade tool, place in the corner of the toner hopper as shown in Figures 39a and 39b. Press down on foam to activate the adhesive.



4. Remove the release liner from the mag roller inner sealing blade and align with the alignment mark located beyond the outside edge of the magnet as shown in Figure 40.



Note: Press along the entire length of the blade to activate the adhesive and remove any air pockets.



 If replacement is needed for the outer mag roller sealing blade, remove the outer mag roller sealing blade (Figure 41). Clean any residual toner or adhesive from the installation area with 91-99% isopropyl alcohol.



 Remove the adhesive release liner from the outer sealing blade and align the end of the blade with the alignment marks located beyond the outside edge. Align the length of the blade against the ridge between the inner and outer mag roller sealing blade as shown in Figure 42.



Note: Press along the entire length of the blade to activate the adhesive and remove any air pockets.





Note: Static Control offers a single blade replacement for both inner and outer sealing blades.

 If replacement is needed for the doctor blade sealing foam, remove the doctor blade sealing foam and any residual adhesive. Clean the installation area with a lint-free swab and 91-99% isopropyl alcohol (Figure 43).



8. Remove the adhesive release liner from the foam and align with the outer edge of the sealing surface as shown in Figure 44.



9. Press along the length of the foam to activate the adhesive (Figure 45).



10. Place cleaned or replacement doctor blade onto the alignment posts in the toner hopper as shown in Figure 46.



11. Install mag roller scraper tabs at each end. Carefully lift the scraper tab shim and secure with a screw at each end (Figure 47).



Reassembling the Toner Hopper Section

 Install mag bushings onto new mag roller. The black bushing should be on the contact end, the white bushing on the drive end (Figure 48).



13. Align mag roller and place into the toner hopper (Figure 49a).



14. Clean the mag roller contact using a lint-free swab, saturated with 91-99% isopropyl alcohol. Using the wooden end of the swab, apply a small amount of conductive grease to the contact on the contact support plate as shown in Figure 49b.





Note: Inspect mag roller for signs of damage such as scratches and cracks. For cleaning instructions, see Appendix C.

15. Ensure that the scraper tab shim on the mag roller scraper tabs are on top of the mag roller (Figures 50a and 50b).



16. Ensure correct stabilizer bearing placement in mag roller contact support plate drive gear housing as shown in Figure 51.



17. Install mag roller contact support plate and secure with one screw (Figure 52). Ensure the spring is seated properly.



18. Install toner out sensor bar between locator posts (Figure 53).



19. Ensure correct stabilizer bearing placement in mag roller drive gear housing support plate (Figure 54).



20. Install mag roller drive gear housing support plate and secure using two screws (Figure 55). Ensure the spring is seated properly.



21. Install the mag roller drive gear onto the mag roller journal as shown in Figures 56a and 56b.





22. Install the drive gear end plate. Position the flat of the magnet shaft towards the toner hopper to ensure correct fit as shown in Figure 57.





1. Locate and remove the screw in the drum retaining plate. See Figure 58.



2. Remove drum retaining plate (Figure 59).



3. Holding the drum by the gear/hub (Figure 60), remove drum by lifting up and carefully sliding the drum off of the pin in the other end.



4. Remove PCR by grasping the axle on the drive side end and pull it from the saddles (Figure 61).





Note: Inspect PCR and replace as needed. For cleaning instructions, see Appendix A.

5. Locate and remove the two screws securing the wiper blade as shown in Figure 62.



6. Using needle nose pliers, lift the wiper blade from the gear end of the waste bin and remove (Figure 63).



7. Dump waste toner into cartridge cleaning workstation. Blow clean with ionized, dry, filtered, compressed air (Figure 64).





Note: Inspect all the felts and foams and replace if needed.



 If replacement is needed for the wiper blade sealing foam, remove the wiper blade sealing foam and any residual adhesive (Figure 65). Clean the installation area with swab and 91-99% isopropyl alcohol.



 Remove the release liner from the foam and install into the waste bin. Align foam to alignment marks at each end of the waste bin. Press along the length of the foam to activate the adhesive (Figure 66).



Note: If replacement is needed for either the wiper blade end foam or wiper blade end felt, the recovery blade must also be replaced. Remove the recovery blade (Figure 67a), the wiper blade end felt and the wiper blade end foam on both ends of cartridge (Figure 67b). Remove any residual adhesive from the installation area and clean the installation area with 91-99% isopropyl alcohol.





 Remove the release liner from the wiper blade end foam and install on each side of waste bin. Align the foam with the vertical and horizontal edges as shown in Figure 68. Press against the foam to activate the adhesive.



5. Remove the release liner from the appropriate (left or right) wiper blade end felt and install into the waste bin. Align the felt with the alignment edge as shown in Figure 69. Press against the felt to activate the adhesive.



6. Remove the release liner from the recovery blade and install into the waste bin (Figure 70). Center blade between the alignment marks and along the outside edge of the waste bin. Ensure blade is straight and without ripples along the entire length.



 To prepare the wiper blade for installation, dip it into a tray of approved toner and lightly blow off any excess. Install contact end into position first. Place the wiper blade over the alignment posts and secure using two screws. See Figure 71.



8. Make sure the corners of the wiper blade are seated in the notches of the wiper blade end felts as shown in Figure 72.



9. Clean the PCR saddles and drum axle pin (Figure 73a and 73b) with a cotton swab saturated with 91-99% isopropyl alcohol. Using the wooden end of a swab, apply a small amount of conductive lubricant to the black saddle of the PCR and drum axle pin.



10. Install the PCR into the saddles (Figure 74).



11. Apply a drop of conductive lubricant on the tip of the drum axle pin using the wooden end of a swab, as shown in Figure 75.



 Prior to installation of the drum, apply a fine layer of approved toner along the surface of the drum. Lightly blow off excessive toner. Install the drum by sliding onto the drum axle pin at contact side of waste bin (Figure 76).



Note: Lubricate the drum axle hub in the retaining plate with Lubriplate 105 ™ cartridge lubricant.



13. Install drum retaining plate and secure with one Phillips screw at the hole closest to the locator post (Figure 77).



14. Rotate drum in the direction shown in Figure 80. Wipe the PCR with lint-free cloth only if excess toner is visible on the PCR (Figure 78).





Position the two halves together as shown in Figure 79. 1.



2. While holding the two halves of the cartridge together, install contact side end plate (Figure 80a) and secure with five screws (Figure 80b).





3. Install gear side end plate (Figure 81a) and secure with five screws (Figure 81b).







Note: Drum is exposed, take care to prevent damage. Install drum shutter onto cartridge.

Install shutter support bar into place on each side of the waste bin 4. (Figure 82) and snap into place.





Note: For chip installation, refer to SSS# 1017.

CLEANING INSTRUCTIONS - APPENDIX A

This section provides the information needed to clean the OEM mag roller, doctor blade and PCR. Before attempting to perform the following procedures, read the entire section carefully. Ensure all necessary safety precautions are followed.

Static Control provides components that have been electrophotographically matched as a system as well as remanufacturing procedures that have been carefully researched. If you use our Static Control components and follow our step-by-step instructions, you will be able to produce a remanufactured cartridge that produces prints virtually indistinguishable from the OEM. To guarantee this level of quality, we recommend that you change the critical components each time and carefully follow these remanufacturing procedures.

We realize that on occasion you may decide that you need to reuse OEM component parts rather than new Static Control products. For this reason we have provided an appendix which includes our recommendations with how to safely and most effectively clean used OEM components. Reusing cleaned OEM components from virgin cartridges, used only once in the OEM cycle, carries some risks to overall print quality. Carefully consider this risk before using a "clean and reuse" policy in your remanufacturing facility.

PCR Cleaning

1. Using dry, filtered compressed air, clean any loose toner from the PCR (Figure 83).



 Once the PCR is clean, use a lint-free cloth dampened with 91-99% isopropyl alcohol to wipe down the entire surface of the PCR. Inspect for damage and replace as needed (Figure 84).





Doctor Blade Cleaning

1. Using dry, filtered compressed air, clean any loose toner from the doctor blade (Figure 85).



- Note: If further cleaning is required, wipe with a lint-free cloth dampened with 91-99% isopropyl alcohol. Wipe from the center to the ends to remove any cleaning residue.



Note: The blade is very fragile and should be handled with care.

2. Once the doctor blade is clean, use a lint-free cloth dampened with deionized water to wipe down the entire surface of the doctor blade. Blow off any water left on the doctor blade with dry, filtered, compressed air (Figure 86).





Mag Roller Cleaning

Grasp the mag roller by the metal shaft at either end. Using 1. dry, filtered, compressed air, remove any loose toner (Figure 87).



2. Inspect the mag roller for signs of damage, such as cuts, nicks, dents or fraying.



Note: If there are signs of damage, discard the mag roller and replace it with a new one. If there are no signs of damage, continue with this procedure.

Once all of the toner has been removed, use a lint-free cloth damp-3. ened with 91-99% isopropyl alcohol (Figure 88).



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DEDICATION TO TRAINING

In order to produce consistent high quality prints that are virtually indistinguishable from the OEM, it is essential to follow Static Control's remanufacturing instructions exactly as directed. Static Control is dedicated to informing customers of the latest innovations in training and knowledge. Access to these instructions, our technical support staff and View on Demand Webinars is available to all customers in good standing.

ELECTROPHOTOGRAPHICALLY MATCHED COMPONENTS

We provide these critical components that have been electrophotographically matched for use in remanufactured toner cartridges. It is vital that the critical components be replaced as a system to ensure consistent high quality performance. We provide additional components such as felts, foams and recovery blades, should you decide they are necessary. Using Static Control's system of components allows you to use less expensive non-virgin cartridges and create remanufactured cartridges that provide high quality prints virtually indistinguishable from the OEM.

INDUSTRY LEADER

Static Control is the global leader in aftermarket imaging and remanufacturing technology. Offices are located worldwide and all research, development, manufacturing and engineering takes place at their Sanford, North Carolina, USA world headquarters. Currently, Static Control manufactures in-house over 8,000 imaging products and supplies over 15,000 imaging products to the aftermarket industry.



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