XEROX® PHASER 3140 • 3160
TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS

XEROX PHASER 3160 TONER CARTRIDGE

UniNet
www.**uninet**imaging.com

REMANUFACTURING THE XEROX PHASER 3160 TONER CARTRIDGE

By Mike Josiah and the Technical Staff at UniNet

First released in December 2009 the Xerox Phaser 3160 series of printers are based on a 18-24ppm engine (depending on the model) with a maximum resolution of 1200 x 1200 dpi. The processor is a 150 Mhz (360 Mhz in 3160 models) chip and comes standard with 8 Mb SDRAM (64Mb SDRAM 3160 models). Depending on the model number, other options/specs are available.

The Phaser 3160 cartridges do not have a drum cover, and come new with a piece of heavy paper with a thin sheet of foam on the inside taped around the cartridge. All new cartridges opened so far have shown some toner leakage on the drum that would have shown on any prints for at least a few pages.

These cartridges have taken a dramatic change in that there are no screws in the outside of the cartridge at all. There are plastic rivets that need to be cut off, holes drilled and screws installed to hold them back on. It's not a hard process and it's covered completely in the instructions.

www.**uninet**imaging.com

The standard cartridge (Xerox# 108R00908) is rated for 1,500 pages. The high yield cartridge (Xerox# 108R00909) is rated for 2,500 pages. As with pretty much all cartridges these days the cartridge has a chip and it has to be replaced each cycle.

MACHINES THAT USE THIS CARTRIDGE SO FAR
Phaser 3140
Phaser 3155
**Phaser 3160B**
Phaser 3160N

Cartridge troubleshooting how to print test pages will be listed at the end of these instructions.

REQUIRED TOOLS
1. Toner approved vacuum
2. A small common screwdriver
3. A Phillips head screwdriver
4. Needle nose pliers
5. Chisel blade X-Acto style knife
6. Small drill bit (make sure it matches the self tapping screws)

REQUIRED SUPPLIES
1. New toner for use in Xerox Phaser 3160
2. New replacement chip for use in Xerox Phaser 3160 (make sure you have the correct region chip)
3. New OPC drum (optional)
4. New developer roller (optional)
5. New PCR (optional)
6. New doctor blade (optional)
7. Self tapping screws (seven to match to drill bit you plan to use)
8. Conductive grease
9. 99% isopropyl alcohol
10. Drum lubricating powder
11. Small tube of silicone caulk
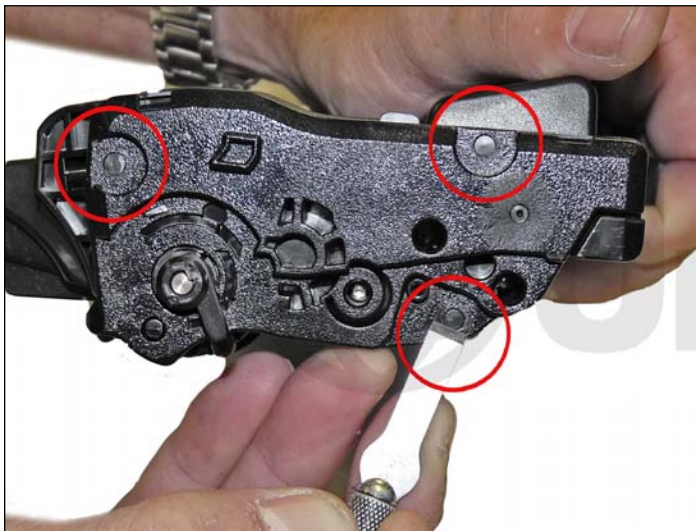
1. Place the cartridge with the handle up, facing towards you. With the chisel blade knife, slice off the heads of the three plastic rivets. Leave the end cap in place for now.
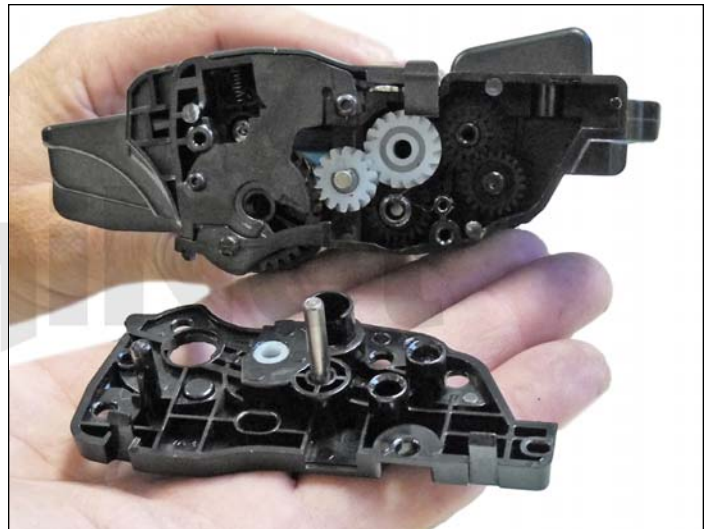
2. On the left side end cap take the chisel blade knife and slice off the heads of the four plastic rivets.

www.**uninet**imaging.com

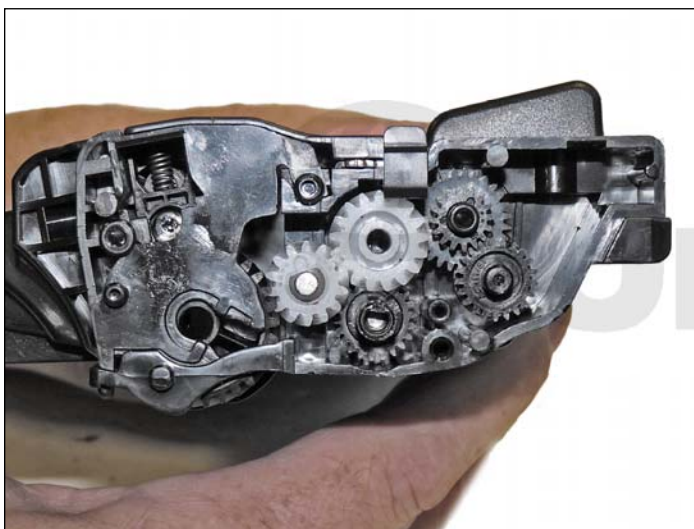3. Remove the drum axle arm from the right or large gear side of the cartridge.

The drum axle will most likely come with the arm.

Remove it completely.

4. While still on the left end cap, locate the top tab.

Press in on the tab, and remove the end cap.

UniNet
www.**uninet**imaging.com

5. Remove the gears.

6. On the right side end cap, remove the remaining arm and press in on the top tab and remove the end cap.

www.uninetimaging.com

7. Separate the two halves slightly, and lift off the middle top cover.

8. Lift up on the drum/waste hopper and remove.

Be careful to hold the drum so it does not become damaged.

Remove the drum/waste assembly.

www.**uninet**imaging.com

9. Remove the drum.

10. Remove the PCR from the assembly.

11. Remove the PCR cleaning roller. Clean the PCR with your normal PCR cleaner.

WARNING: Do not clean the OEM PCR with alcohol, as this will remove the conductive coating from the roller. If the PCR is an aftermarket, follow the cleaning methods recommended by the manufacturer. If the PCR is an OEM, we recommend it be cleaned with your standard PCR cleaner.

12. Remove both the PCR holders by pressing in on the tabs at the bottom of the holder. These holders need to be removed to allow access to the wiper blade.

www.**uninet**imaging.com

13. Remove the two screws from the wiper blade, remove the blade.
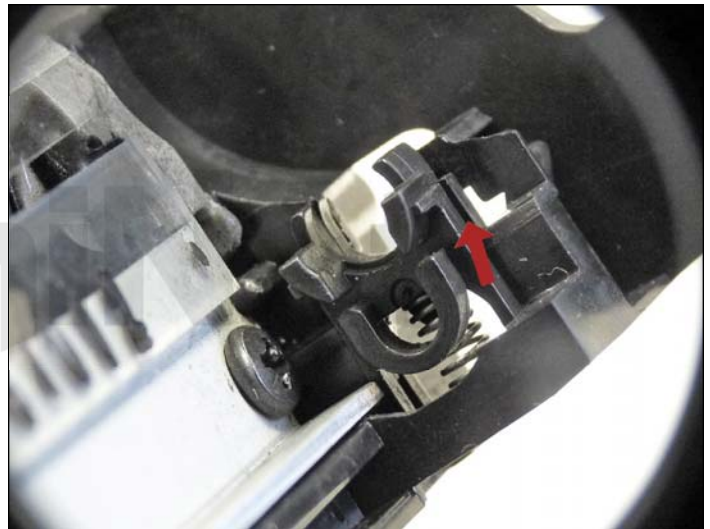

14. Clean out all the waste toner from the hopper.

Make sure the seals are clean.

15. Install the cleaned or new wiper blade and two screws.

16. Install the two PCR holders. There are slots in the holders that fit over tabs in the cartridge.

www.**uninet**imaging.com

17. Blow off or vacuum the PCR cleaning roller.

Install in the waste hopper.

18. Place a small amount of conductive grease in the holders, and install the PCR.

19. The large gear side of the drum axle shaft has conductive grease on it. Regardless of if you are replacing the drum or not, clean the old grease off, and replace with new.

20. Install the drum and axle from the small gear side of the drum into the waste hopper. Make sure the keyed end of the shaft is on the small gear side.

UniNet
www.**uninet**imaging.com

21. On the supply hopper, carefully pry out the fill plug and dump out any remaining toner. The fill plug can be difficult to remove as it is recessed. Take a small common screwdriver and work it around the edge lifting slightly until it comes loose.

22. Remove the developer roller.

23. Remove the two screws from the doctor blade, and remove the blade. Clean out all the remaining toner from the hopper.

24. Make sure the doctor blade sealing foam and the developer rollers seals are clean and intact.

UniNet
www.**uninet**imaging.com

25. Clean the doctor blade edge so there is no evidence of build up along the edge. If any buildup exists, the cartridge will streak. No chemicals should be used. We have found using a clean ice cream type wooden stick works great for scraping the blade clean without damaging it.

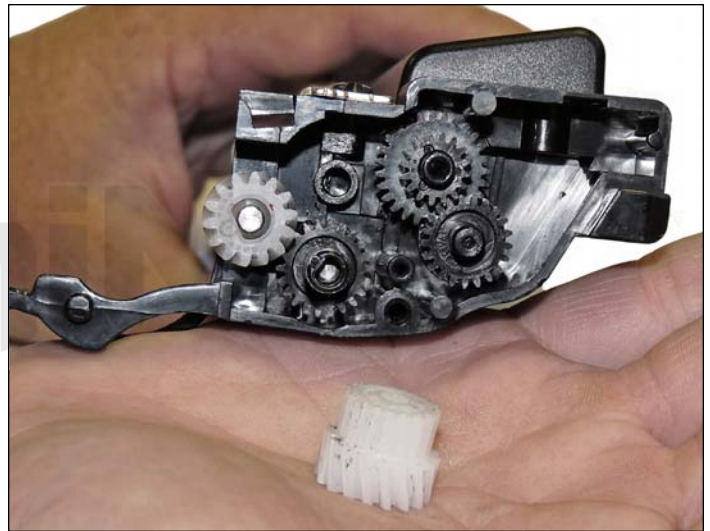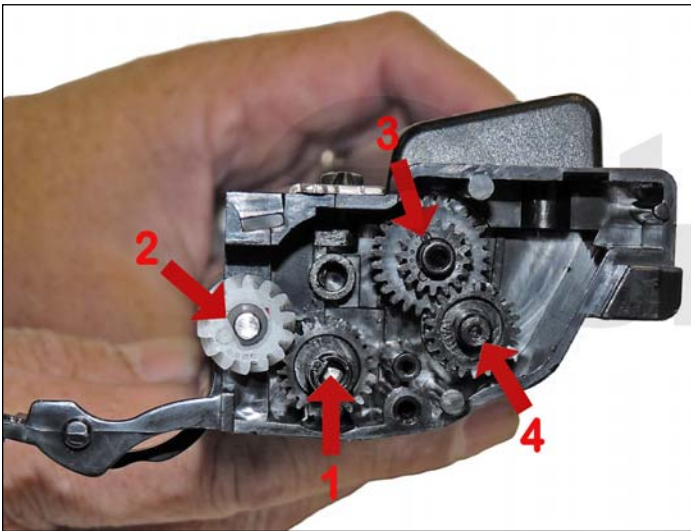26. Install the doctor blade and two screws.

27. Clean the developer roller with a dedicated developer roller cleaner, and replace into the hopper. Place the long shaft side to the gear side of the cartridge.
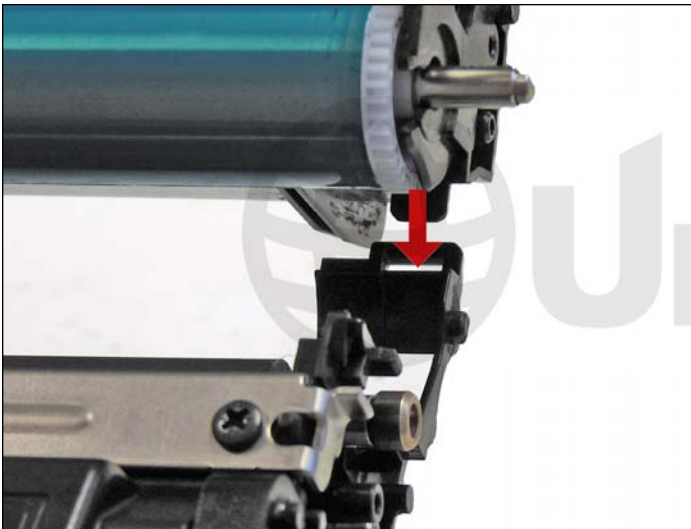

28. Fill the hopper with toner for use in Xerox Phaser 3160.

Replace the fill plug and check for leaks.

UniNet
www.uninetimaging.com

29. Install the gears as shown.

Do not install the large white floating gear yet.

30. Fit both sides of the waste hopper tabs into the toner hopper.
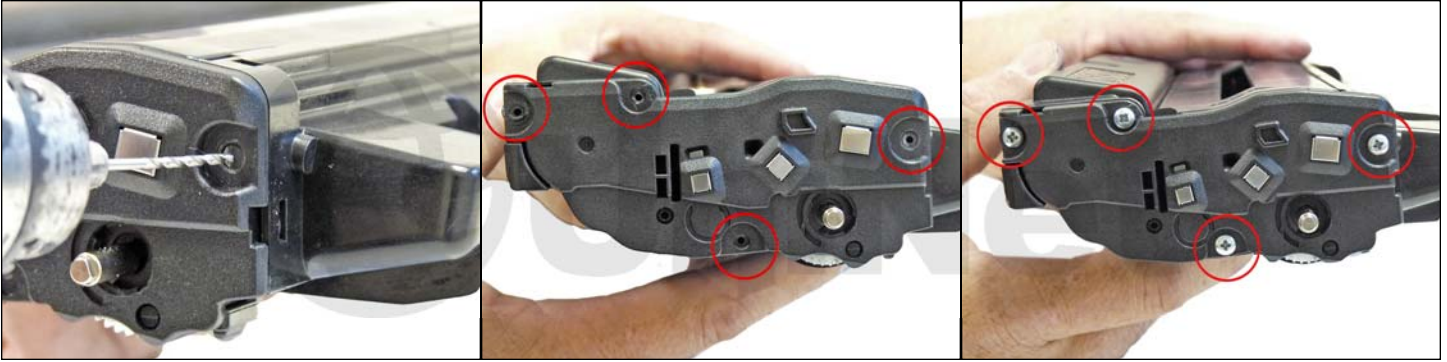
www.uninetimaging.com

31. Slide the middle top cover/PCR assembly into place.

Make sure all the middle tabs fit under the edge of the waste hopper.

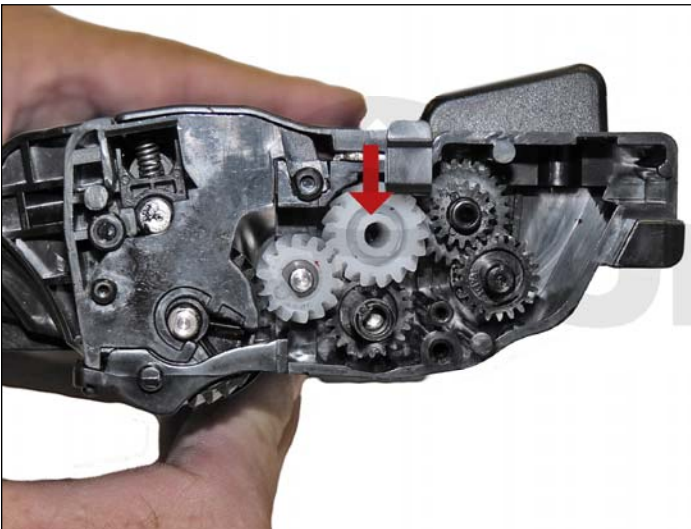32. Clean the contacts on the left side end cap, and replace the conductive grease.

Snap the end cap into place.

UniNet
www.uninetimaging.com

33. Drill four small holes that correspond to the screw size you are using.

Install the four screws into the end cap.

34. Install the large white floating gear on the gear side of the cartridge.

www.**unet**imaging.com

35. Clean the hubs on the gear side end cap, and replace the conductive grease.

Snap the end cap into place.

36. Drill three small holes that correspond to the screw size you are using.

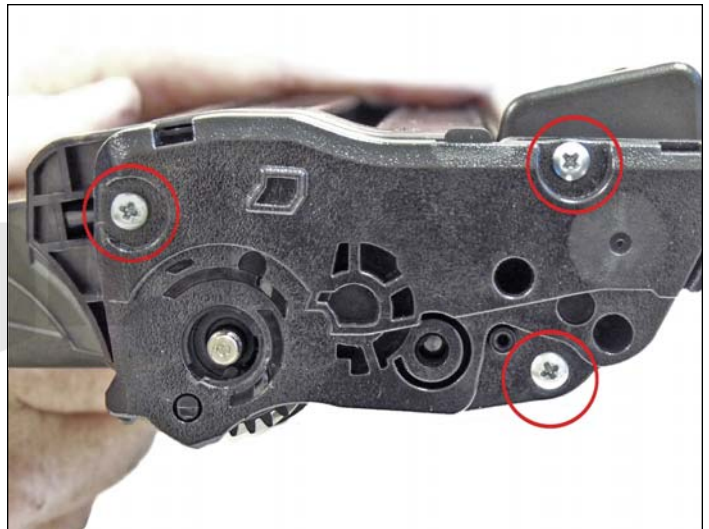Install the three screws into the end cap.

UniNet

www.uninetimaging.com

37. Install the two drum axle arms as shown. The white starter drum separator is different since the cartridge is shipped inside the printer when purchased. There is a shipping lock inside the printer that forces you to remove the starter cartridge from the printer in order to remove the printer shipping lock. Once the printer shipping lock is removed the cartridge is then reinstalled. When the starter cartridge is removed, the separator is adjusted to prepare for printing. The standard and high yield replacement cartridges are different in color (black color compared to white in the starter cart.) and shape. The drum separator in the replacement cartridges is adjusted when the cartridge is installed not like the starter cartridge that is adjusted when the cartridge is removed.

We recommend you position the white starter cartridge drum separator in the "used" position this will insure that the drum is at the proper distance from the developer roller.
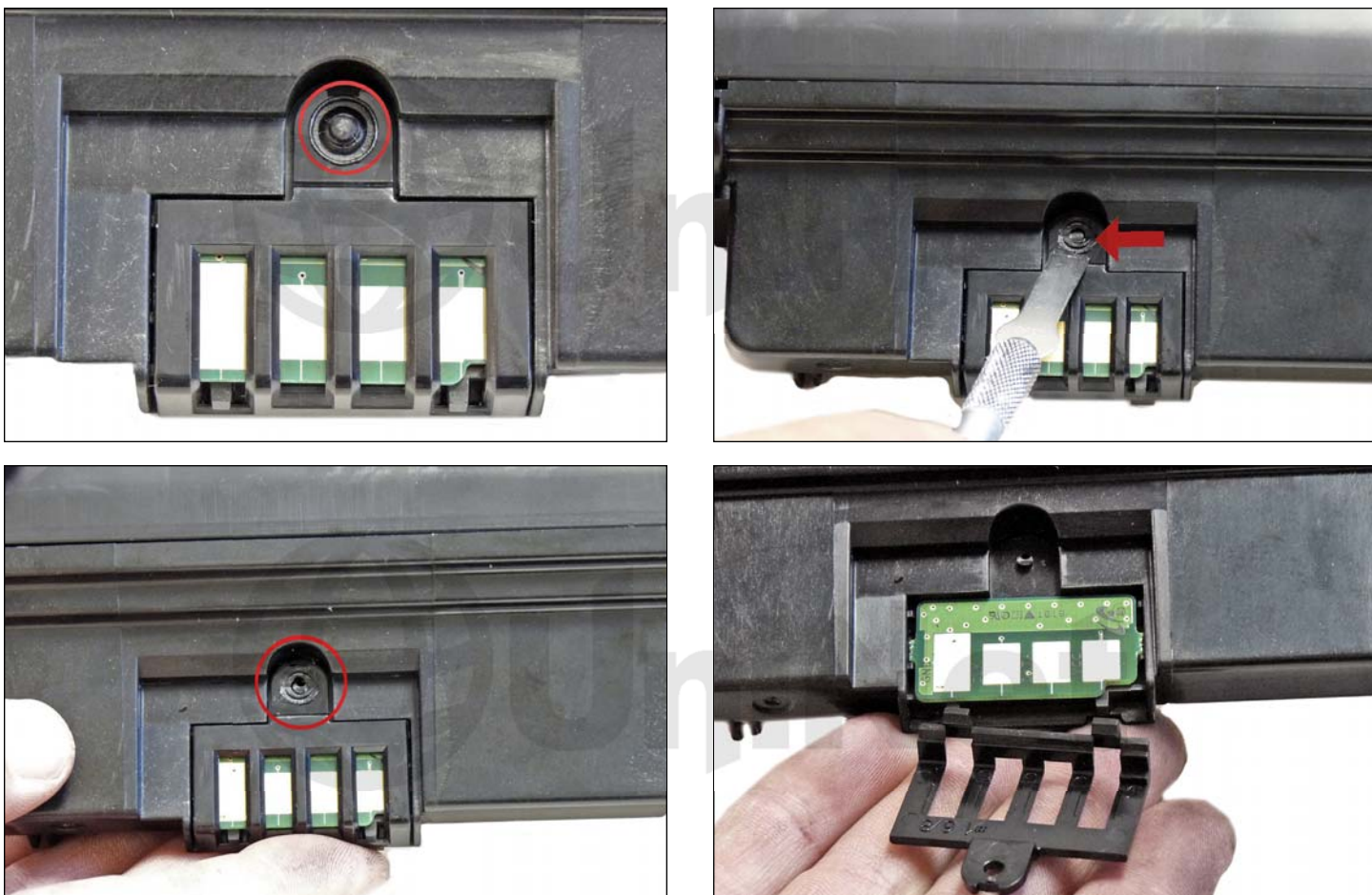
38. To replace the chip, slice the top of the plastic river off with the chisel blade knife.

Drill out the plastic rivet with a small drill. Remove the cover and chip.

UniNet
www.unitimaging.com

39. Install the new chip and cover. Then, insert a small screw that corresponds to the hole drilled to hold everything in place. It's very easy when drilling the hole for this screw to drill through into the waste chamber. Place a small amount of silicone caulk in the hole and screw before install the screw.

COMMON CARTRIDGE PROBLEMS

Repetitive defect chart:

Upper heat roller:	**77.5 mm**
OPC drum:	**75.6 mm**
Lower pressure roller:	**75.4 mm**
Supply roller:	**49.0 mm**
Transfer roller:	**47.0 mm**
PCR	**37.5 mm**
Developer roller:	**35.0 mm**

PRINTING TEST PAGES

Demo Page:
1. With the printer in "READY" state, press and hold the cancel button for about two seconds until the status LED blinks slowly.
2. Release the button.

Configuration Page:
1. With the printer in "READY" state, press and hold the cancel button for about five seconds until the status LED blinks fast.
2. Release the button.

Cleaning Page:
1. With the printer in "READY" state, press and hold the cancel button for about eight seconds until the status LED blinks fast.
2. Release the button.

Supplies Status Page:
1. With the printer in "READY" state, press and hold the cancel button for about ten seconds until the status LED blinks fast.
2. Release the button.

UniNet
www.uninetimaging.com