

## *Adding extended features to a Phaser® 340 — Upgrade Kit Z340FX*

This kit provides the 16-Mbyte RAM SIMM and print engine ROM necessary to provide additional on-board fonts and imaging capabilities to a Phaser 340 Color Printer. This kit also includes diskettes containing PostScript screen fonts; these allow you to use the additional on-board fonts available in the Phaser 340 Plus. The PostScript Code ROM SIMM and engine ROM replaced by this upgrade kit must be returned to Tektronix; otherwise, you will be invoiced for the unreturned ROM SIMM. Instructions for returning the ROM SIMM are provided at the end of this instruction sheet.

Printer serial-numbered up to and including BBxxxxx require Z340FX Option 01 which includes a PostScript ROM SIMM upgrade. Printers serial-numbered BCxxxx and above require the Z340FX Option 02 Upgrade Kit. Make sure you have the correct kit by checking your printer's serial number and the labeling on this kit's box.

### **Kit contents**

- Print engine ROM
- 16-Mbyte RAM SIMM
- Additional Adobe PostScript fonts (on diskette)
- Anti-static wrist strap
- ROM puller tool
- PostScript Code ROM SIMM -- Option 01 only
- User and driver manuals, disks and CD-ROM -- Z340FX Option 01 only
- Return shipping packaging and label (for the ROMs)

### **On-site installation**

Professional, on-site installation is just a phone call away. Productivity is important to your business success – so when you need it done right – the first time – call Tektronix. Tektronix' on-site installation delivers what you've been looking for: expert service technicians who provide quality, on-site product installation. In the United States and Canada, call 1 800-835-6100.

Don't install this upgrade, if you are not comfortable modifying electronic equipment.

## Important! About the printer's IP address (Z340FX Option 1 only)

Upgrading the printer's PostScript ROM will erase the printer's IP address from the printer's non-volatile memory. Therefore you should print the printer's configuration page, which lists the printer's IP address, before upgrading the printer.

1. While the printer is idle, press the **Menu** button to display the *Help pages* menu item.
2. Press the **arrow** button to scroll to the item *Configuration page*. Press the **Print** button to print the Configuration page.
3. Note the IP address on the print and save the print for later reference.

## Static electricity precautions

- Leave the printer plugged into its power outlet; this preserves a ground path for static discharges.
- Touch the printer's bare metal frame often to discharge static electricity from your body.
- Handle the circuit board(s) by their edges only.
- Do not lay the board(s) on a metal surface.
- Make the least possible movements to avoid generating static electricity.
- Avoid wearing wool, nylon or polyester clothing; they generate static electricity.

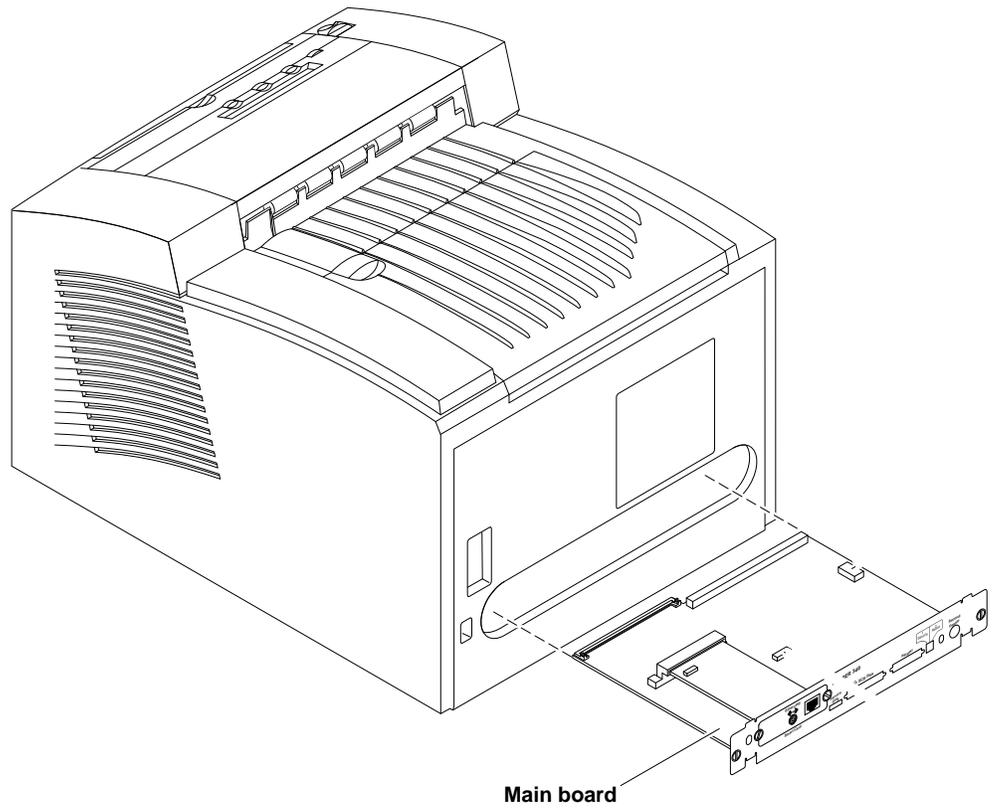
## Upgrading the printer

### Removing the main board

**Caution** *Do not tilt the printer. If you must move the printer to access the rear of the printer to install the upgrade, be careful not to tip or tilt the printer. Hot, liquid ink in the printer could spill and damage the printer. Once the printer is turned off, it takes 30 minutes for the ink to cool to its solid state. Wait and allow the ink to cool.*

1. Power down the printer. Leave the power cord plugged in to provide a ground path for static discharges. Remove the interface cables.
2. Loosen the two rear panel securing screws.

3. Slide out the main board.



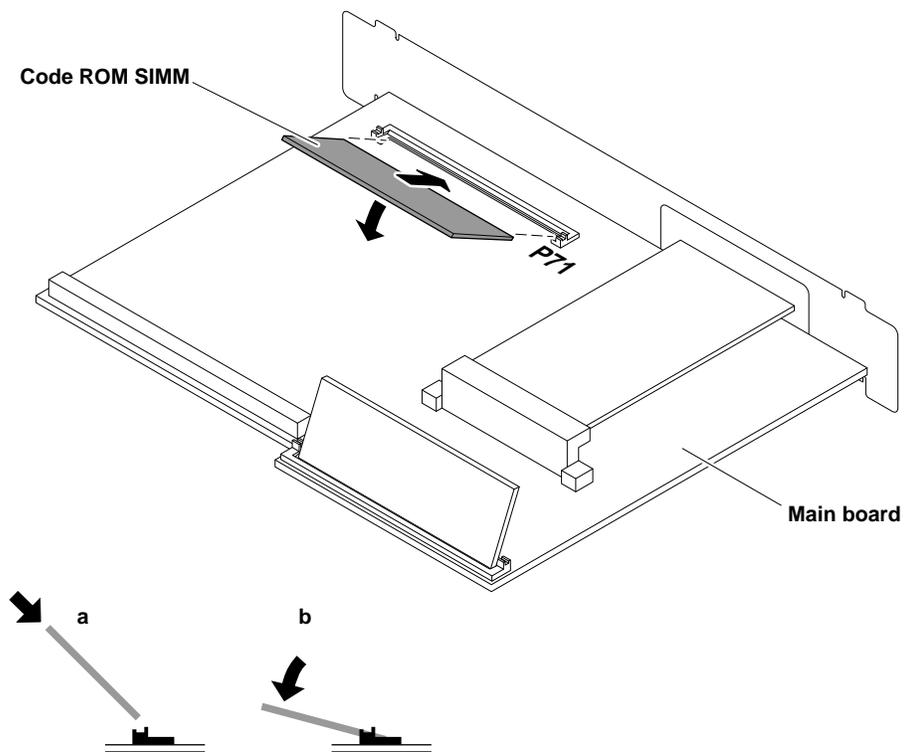
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### Installing the PostScript Code ROM SIMM (Z340FX Option 1 only)

The PostScript Code ROM SIMM is only included as a part of the upgrade if you have a printer serial-numbered BBxxxx or below. Otherwise, proceed to Step 6.

4. Remove the currently installed PostScript code ROM SIMM from image processor board (connector P71) by spreading apart the hook-like metal pawls securing each end of the SIMM in its connector. Remove the ROM SIMM and set it aside; do not discard it.
5. Insert the replacement PostScript code ROM SIMM, included with this kit, in connector P71 (a), and tilt the SIMM down until it locks in place (b). The part number 671-3809-00 is printed on the back of the ROM SIMM to identify it.

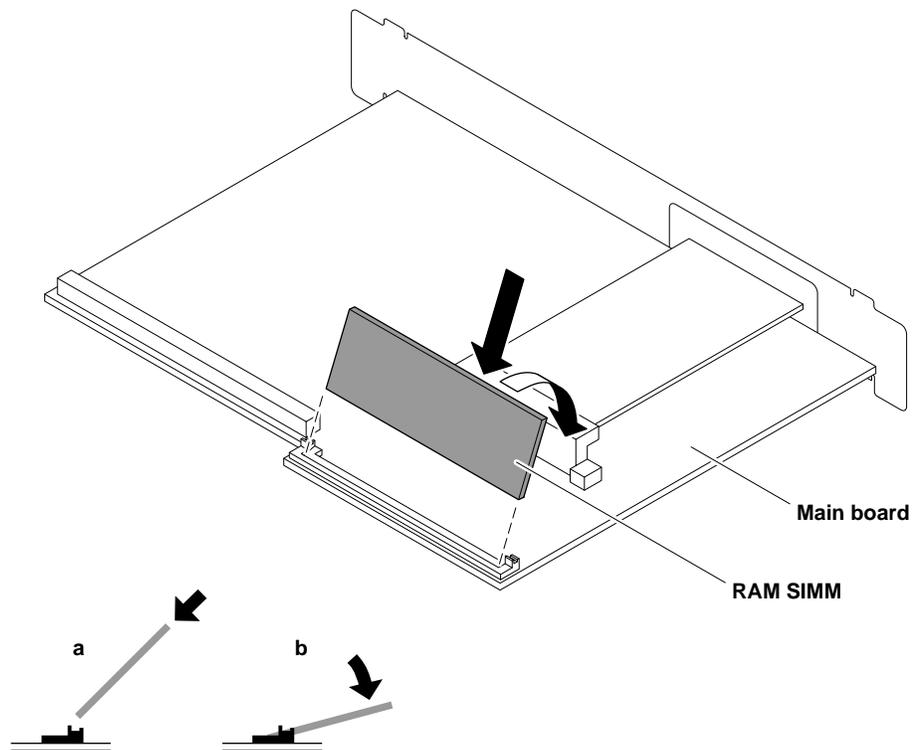
When properly inserted, a tab on each end of the connector slips into a hole on each end of the code ROM SIMM. Also, a pawl on each end of the connector latches around each end of the SIMM to lock it in place.



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## Installing the 16-Mbyte SIMM

6. If a 4-Mbyte RAM SIMM is already installed in the RAM SIMM connector J20, it must be removed. You can identify a 4-Mbyte RAM SIMM by the part number 671-1561-01 or 671-3574-00 printed on its underside. To remove the RAM SIMM, carefully spread the hook-like metal pawls securing each end of the SIMM into the connector.
7. Insert the 16-Mbyte RAM SIMM (part number 671-3133-00) in connector J20 (a), and tilt the module down until it locks in place (b).
8. When properly inserted, a tab on each end of the connector slips into a hole on each end of the RAM SIMM. Also, a pawl on each end of the connector latches around each end of the RAM SIMM to lock it in place.



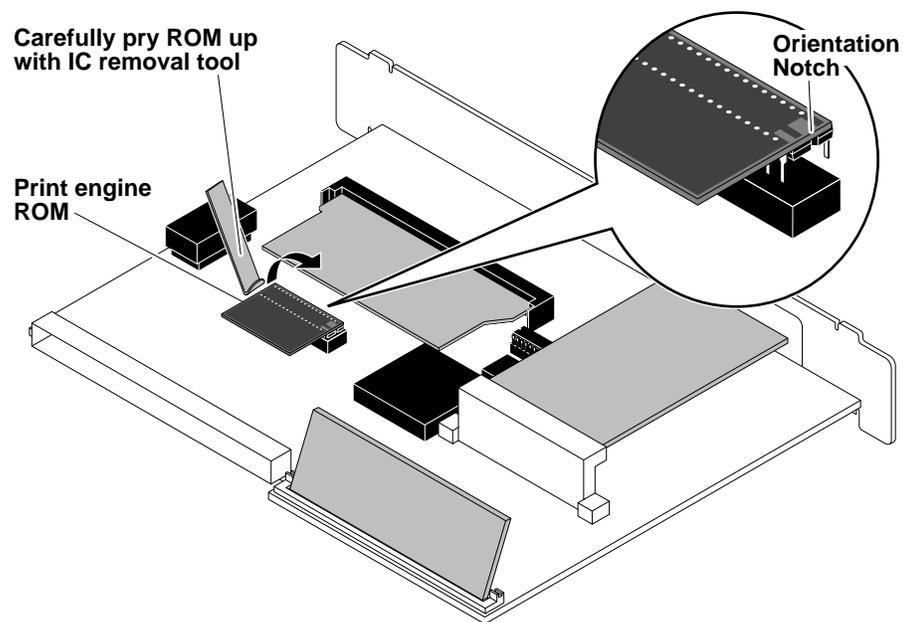
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## Replacing the print engine ROM

9. Locate the print engine ROM.

**Note** *Some products may use a standard ROM IC chip while others may use an adaptor circuit board. Either part type can be substituted for the other on this main board.*

10. Insert the IC removal tool between the ROM (or adaptor board ROM) and the socket. *GENTLY* remove the old part by prying upward, being careful to not damage the main board. When the near end of the part begins to lift from the socket, gently lift the other end of the part with your fingers to prevent damage to the ROM's pins.



Z340-1-01

11. Install the new engine ROM (it can be identified by the number 163-0646-00 printed on it). Check for proper orientation and alignment of the pins; pin 1 should be oriented toward the network card end of the main board. Press the ROM firmly into its socket.

**Note** *Pin 1 end of the adaptor board is identified by the square pads on the upper surface of the board; alternately, the pin 1 end can be identified by the notch in the pin array on the bottom-side of the board.*

12. Reinstall the main board into the printer.
13. Reconnect the host interface cables. Turn on the printer and print the startup page; it indicates the amount of RAM and fonts installed in the printer. Refer to the *Phaser 340 User Manual* for details on printing the startup page.

14. Follow the instructions included with the font disks shipped with this upgrade to install the fonts on your computer.

## Setting the printer's IP address

**If you replaced the PostScript code ROM SIMM — Upgrade kit Z340FX Option 01 you will have to set the printers IP address.** How you set the IP address in your printer depends on a number of factors such as the protocol used by your host TCP/IP network, whether or not you use a boot server, and the types of PCs or workstations available to you. The topic of setting the printer's IP address is fully explained in the Chapter 9 topic "Configuring your printer" in the *PhaserShare Network Cards and Software User Manual*. The instructions for setting the printer's IP address are also available on the Tektronix web page: [http://www.tek.com/Color\\_Printers/userdoc](http://www.tek.com/Color_Printers/userdoc).

## Return the old ROMs to Tektronix

1. Repack the old PostScript code ROM SIMM (if replaced) and the print engine ROM in the anti-static bags. Place them in the shipping box.
2. In the U.S.A.:
  - a. Write the printer's original serial number on the shipping return label.
  - b. Securely tape the box closed and mail it to the pre-addresses location. Postage is prepaid.

Outside the U.S.A.:

- a. Affix the special international shipping return label, included with this update kit, to conceal the original U.S. shipping label.
- b. Write the printer's serial number on the shipping return label.
- c. Tape the box closed and ship the box to Tektronix.

