

With the GrayShare printer software provided, you can either use the LaserWriter Select 300. When you share the printer, it remains connected to your own Macintosh. Network users can see it. You have complete control over the shared printer. You can turn sharing on or off at any time.

Expandability

The LaserWriter Select 300 can be upgraded with more memory, added paper-feeding options, and

Memory upgrades

You can obtain 1 MB and 4 MB memory upgrades where you purchased your printer. The 1 MB upgrade

! WARNING: Have an authorized service provider install any memory upgrade. Attempting to install

Paper-feeding options

In addition to memory upgrades, you can expand your printer with added cassettes and a multi

PostScript printing

Your Macintosh controls the LaserWriter Select 300 using Apple's QuickDraw graphics software.

CHAPTER 1

SETTING UP YOUR PRINTER

This chapter tells you how to set up the printer and connect it to your computer, and install

Choosing a Location for the Printer

Choose a flat, stable surface with adequate room around the printer as shown. The area should

Allow 3 inches (7.6 cm) at the back of the printer for the power cord.

Allow space for air flow around the fan.

Leave enough room at the front of the printer to attach the 4 paper cassette.

Important Safety Instructions

Always take the following precautions:

- Protect the printer from dampness and sources of liquids.
- Don't use devices that produce open flames, such as Bunsen burners, near the printer.
- Don't use alcohol-based or ammonia-based cleaners on or around the printer.
- Clean the printer with only a damp cloth, and a mild soap or detergent if necessary. Be careful.

Disconnect the power plug immediately if any of the following situations occur:

- The power cord or plug is frayed or damaged.

- Liquid gets spilled on or into the printer.
- The printer needs cleaning, servicing, or repair.

! WARNING: Electrical equipment may be hazardous if misused. Operation of the printer must

Plugging in the Printer

A power cord is supplied with your printer.

Insert the power cord into the receptacle on the back of the LaserWriter. Then plug the cord

! WARNING: The LaserWriter is equipped with a three-wire grounding plug -- a plug that has

Connecting the Printer to a Macintosh

To connect the printer, you need a peripheral cable with a mini-DIN 8-pin connector, also known as

Attach one end of the peripheral cable to the printer port or modem port on the Macintosh.

! IMPORTANT: If your computer is connected to an AppleTalk network through the printer port,

Installing the Printer Software

Before you can print, you need to install the software on the disks that came with your printer.

System requirements

To use the printer software, you need Macintosh system software version 6.0.7 or later. If you

The printer software can operate on a Macintosh using System 7 with at least 2 MB of memory.

Installation

Follow these steps to install the Macintosh software.

1. Insert the LaserWriter Select 300 Installation disk and open the disk icon.

A window appears, showing the contents of the disk.

2. Drag the TeachText and CleaningPage icons to your hard disk.

If you already have a copy of TeachText on your hard disk, you don't need to drag this icon.

The CleaningPage is a TeachText document you'll need to print in the future when you replace

3. Open the Installer icon.

The Installer's Welcome screen describes the items that will be installed on your disk.

4. Click OK to clear the Welcome screen and display the Installer dialog box.

The Easy Install dialog box appears.

Note: Installing customized printer software: These instructions cover the Easy Install procedure.

5. Make sure that the disk indicated on the screen is the one on which you want to install. If the wrong disk name appears, click Switch Disk until the correct name appears.

6. Click Install.

Status messages inform you of progress during installation.

7. Insert additional disks when messages on your screen request them.

8. When you see a message reporting that the installation was successful, click Restart.

Go on to Chapter 2 to install a toner cartridge and load the paper cassette, and then to Chapter 3 to install a paper cassette.

CHAPTER 2

ADDING TONER AND PAPER

This chapter tells you how to install a toner cartridge into the printer and load paper into the printer.

Installing or Changing a Toner Cartridge

Toner is the powdered ink that produces the image on the paper. Follow these steps to install a toner cartridge.

1. Open the printer access door.
2. If you are replacing a used cartridge, remove the old cartridge and set it aside.
3. Unpack the new toner cartridge and gently rock it to distribute the toner inside.

Gently rock the cartridge in a see-saw motion.

4. Pull the tape tab to remove the tape.

Pull the tape completely out.

5. Insert the cartridge into the printer.

Line up the markings on the sides of the cartridge with the arrows in the printer.

Line up the arrows on the toner cartridge with the arrows inside the printer.

6. Close the access door.

Using the Cleaning Page After You Change the Toner Cartridge

This step is not necessary the first time you install a toner cartridge. If you are setting up the printer for the first time, you should print a cleaning page.

The Cleaning Page is a file, included with the printer software, that you print each time you change the toner cartridge.

1. Select the Cleaning Page icon on your disk.

You should have installed the Cleaning Page document as part of the software installation.

2. Choose Print from the File menu.

The Print dialog box appears.

3. Click Print.

The Cleaning Page prints. It contains only a wide, black stripe.

4. Open the manual feed tray.

If you need help, see Chapter 3 for instructions.

5. Take out the printed page, turn it over, and feed it again through the manual feed tray. Feed the printed page a second time.

6. Once again, select the Cleaning Page icon and choose Print from the File menu.

7. In the Print dialog box, choose Manual Feed from the Paper Source pop-up menu.

8. Click Print.

The cleaning process is finished. Discard the Cleaning Page.

Loading the Paper Cassette

The cassette supplied with your printer holds up to 250 sheets of copier-weight bond paper.

To load the paper cassette:

1. Insert a stack of paper that fits below the top edge of the paper bracket inside the cassette. Be sure to set the sliding backstop to one of the four standard paper sizes marked in the tray.

! IMPORTANT: Adjust the sliding backstop in the cassette so it clicks into the notch for the paper size you are using.

2. Slide the cassette into the printer.

Push firmly to make sure the cassette is in place.

3. Press firmly on the upper corners of the cassette to make sure it is secure.

To remove the cassette to refill it, grasp it and pull firmly straight out.

Loading 3-hole punched paper

Follow the instructions for loading ordinary paper, and position the sheets as shown below.

The holes should line up along the right side of the cassette as you insert it into the printer.

Loading letterhead paper

Follow the instructions for loading ordinary paper, and position the sheets as shown below.

Insert letterhead paper face up with the top of the page at this end of the cassette.

CHAPTER 3

PRINTING

This chapter explains how to print documents on a LaserWriter Select 300 connected to your computer. More printing instructions can be found in the manuals for your application programs, such as PageMaker. Before you use the printer, you should have installed the software as described in Chapter 1.

Turning On the Printer

The power switch is located on the side near the rear of the printer. When the power is turned on, the printer will print a test page.

Using the Chooser the First Time You Print

You use the Chooser desk accessory to tell the Macintosh where to send print jobs.

In the Chooser, you choose the printer port to which you connected the LaserWriter and can choose the printer to use. **! IMPORTANT:** Once you choose the printer in the Chooser, you won't need to repeat this step.

1. Choose the Chooser from the Apple menu.

First click the LW Select 300 icon in this box.

Then click the serial port that you used to connect the printer.

Click here to share the printer over a network or to create a log of printed jobs. See "Sharing the Printer." If you used the printer port to connect the printer, be sure to make AppleTalk inactive (see "About Background Printing") so you can use your computer for other things while it is printing. For details, see "Background Printing."

2. After you choose the printer, close the Chooser.

Defining the Page Setup

The Page Setup command is found in the File menu of nearly all Macintosh programs. Depending on the program, you may see different options. Click one of these icons to choose vertical or horizontal page orientation.

Type any size from 5% to 999% or choose a preset size from the menu.

Choose from six paper sizes: U.S. Letter, U.S. Legal, Executive, A4, #10 Envelope, and More.

Click Option to display the dialog box below.

Click here to reduce the image by 4%. This makes the printed dots proportional to the dots per inch.

Click here to reduce the margins and print closer to the edge of the page.

Printing a Document

The LaserWriter prints your document using the cassette unless you specify a different paper.

1. Open the document you want to print or select its icon in the Macintosh Finder.

2. Choose Print from the File menu.

3. Choose the appropriate settings and click Print.

To print more than one copy, type a number here.

If you don't want to print all pages, click in these boxes and type the first and last page.

Choose the paper source from the top menu. To print the first page on special paper, click "

Choose Grayscale to print text, lines, or shades of gray. If printer memory is upgraded to 4

Choose from an alert message or a system sound to notify you when a print job is finished.

Click here to display the printer's darkness control. See "The Image Is Too Light or Too Dar

Printing Paper or Envelopes with the Manual Feed Tray

If you want to use paper that is different from the paper in the cassette, you can use the m

1. Open the manual feed tray.

Flip open the extension on the paper guide.

2. Open the document you want to print or select its icon in the Macintosh Finder.

3. Choose Print from the File menu.

4. In the Print dialog box, choose Manual Feed from the Paper Source pop-up menu.

5. Insert a sheet of paper or envelope as shown. Be sure to keep the page straight so it fe

Insert envelope this way.

Make sure the paper is centered

Top of sheet goes in first (letterhead face down)

6. Click Print.

The sheet you inserted is printed. If the document has additional pages, a message on your s

Printing on Both Sides of a Page

Follow these steps to print a document using both sides of the paper.

1. Print the first side of the page using manual feed or the paper cassette.

2. Take out the printed sheet, turn it over, and print the second side using manual feed, i

Opening the Output Tray

The printer has an output tray that holds sheets in place as they are ejected from the prin

Pull the tray to the stop indicated for your paper size.

Sharing Your Printer With Other Users

If your Macintosh is connected to an AppleTalk network, you can use the GrayShare LaserWrit

Follow these steps to turn on the printer's sharing feature:

1. Choose the Chooser from the Apple menu.

2. Click the LW Select300 icon.

Click the LW Select300 icon in this box.

Click the serial port to which you connected the printer.

Click Setup.

3. Click Setup.

4. Click Share this Printer and enter the options for the shared printer in the Setup dialog.

Click to place an X in this checkbox.

Type a name for the printer. This is the name other users will see in their own Chooser.

Type a password if you want to share the printer with only users who know the password.

Click to place an X here if you want to keep a record of all print jobs. The log file (a text file) will be created in the System folder.

5. Click OK.

6. Close the Chooser window.

Network users can now choose your printer in their Chooser (see the next section for details).

Using a shared printer connected to another Macintosh

To print on a shared LaserWriter Select300, network users must have the LW Select300 driver installed.

Each user wanting to use the shared printer should use the LaserWriter Select300 installation software.

Once the software is installed, the shared printer appears in the list of network printers.

1. Choose the Chooser from the Apple menu.

2. Click the LW Select300 icon.

3. In the list of printers on the right, click the name of the shared LaserWriter Select300 printer.

First click the LW Select300 icon.

Then click the name of the shared printer.

You can click the Get Info button in the Chooser window to see whether any fonts in your system are shared.

4. Close the Chooser.

Your Macintosh will now use the LaserWriter Select300 Page Setup and Print dialog boxes and fonts.

Controlling the use of your printer by others

After you turn on the sharing feature, you still have complete control over the shared printer.

- You can turn sharing on or off at any time.

- You can use the PrintMonitor program in your Macintosh system software to view a list of The PrintMonitor program is available when you have Background Printing turned on in the Control Panel.
Note: Your computer's performance: While your computer is printing in the background you may

CHAPTER 4

TROUBLESHOOTING

This chapter provides solutions to printing problems you may encounter while using your printer.
! WARNING: If you have a problem with your printer and nothing presented in this chapter's

Safety Precautions

Consider these rules of safety before you open the printer or attempt to troubleshoot a problem.

- Don't attempt to disassemble the printer.
- Don't use oil inside the printer.
- Don't use ammonia-based cleaner on or around the printer. They may react with the toner.
- Don't use alcohol-based cleaner on or around the printer. They may react with the plastic.
- Don't leave the access door open. Exposing the toner cartridge to light may damage the cartridge.
- Don't open the drum-protection shutter on the toner cartridge.

! IMPORTANT: The fixing assembly in the printer operates at very high temperatures. When you open the printer, this area can get hot.

Checking the Printer's Status Lights

Always check the status lights first when a printing problem occurs. These often tell you the

- The Ready/In Use light should glow steadily whenever the printer is on, and blink when it is not ready.
- The Paper Out light is on only when there is no paper in the cassette or tray currently selected.
- The Paper Jam light is on when any obstruction occurs in the paper path.

The Chooser doesn't show the LW Select300 icon

If the LW Select300 icon is missing from the box that identifies different printer types, you may not have installed the printer software correctly. If there's no LW Select300 icon here, you haven't installed the printer software correctly. To install the software, follow the instructions in "Installing the Printer Software" in Chapter 4.

The Macintosh can't find the printer

If you have selected the printer icon in the Chooser but nothing prints or you get a message:

- The printer has been turned off. Make sure it is plugged in and turned on (the green status light is on).
- In the Chooser, you may have chosen the wrong printer or selected the wrong serial port (check the Chooser's printer list).
- There's a loose plug somewhere. Check to make sure that all the cables are properly connected.
- The printer is connected to the Macintosh printer port and AppleTalk is active. Open the Chooser's printer list and check the printer's status.

If you still can't resolve the problem, the printer may not be functioning properly. Contact your printer manufacturer for more information.

Printing takes a long time

Printing may be slow on pages containing complex graphics, pages printed using landscape orientation, or pages printed using grayscale images using PhotoGrade. Printing grayscale images using PhotoGrade can take particularly long, because pages printed using grayscale images require more processing. The processing speed of your computer and the amount of memory it has also directly affect printing speed.

The printer won't print a particular page or document

If a document contains a page with very complex graphic images, the printer may have insufficient memory to print the page. If you encounter the "printer out of memory" message frequently, consider having a LaserWriter II or LaserWriter IIx printer.

Type looks jagged

If you don't have a TrueType version of a font, the text in that font is printed using bitmap fonts. This can cause the text to look jagged.

Some text changes to the Geneva font

When your computer runs low on memory, TrueType turns itself off and some TrueType fonts may revert to the Geneva font.

The printer prints on only part of the paper

Make sure you have selected the appropriate paper size in the Page Setup dialog box.

Check the adjustment of the backstop in the paper cassette to make sure it is correct for your paper size.

Paper is jammed

If the Paper Jam status light is on, open the printer and remove the jammed sheet from one of the paper trays.

Paper feeds improperly

If paper tears, gets skewed, or comes through the printer crumpled, it may not be entering the printer properly. Remove any jammed sheets from inside the printer. Open the paper cassette, turn the stack of paper over, and reinsert the paper.

The image on a page is out of place

This problem may result from one of the following:

- You are not using the recommended paper (20-lb. typewriter or photocopy bond).
- The margins are set wrong in the document you are printing.
- The paper cassette may be too full, causing paper to feed incorrectly.

Unwanted lines or stripes appear

If white or dark lines appear on the page, try the following:

- Remove the toner cartridge and rock it to redistribute the toner. Be sure to hold the cartridge gently and rock it in a see-saw motion.

Toner stains appear on printed pages

If the printed pages are not clean, there may be a buildup of toner on the printing rollers.

If stains appear on the backs of printed pages, you may have printed an image that is large.

Problems caused by paper

Many problems such as toner smearing, or paper curling or feeding improperly, can be caused by:

- Extremely slick or shiny paper
 - Paper that is highly textured
 - Coated paper
 - Stapled paper
 - Multipart forms
 - Letterhead paper that was printed using low-temperature dyes or thermography (Such material may not print well.)
- To assure good results, test a few sheets of any paper before you order large quantities.

The image is too light or too dark

If printing is too light or too dark, try the following:

- Take out the toner cartridge and rock it gently to distribute toner. If this doesn't help, try the following:
- Choose Print from the File menu and click Options to display the Print Density control. Drag the slider toward the right to darken the image.
- If the problem occurs on paper other than the recommended 20-lb. photocopy or typewriter bond paper, try a different paper.

APPENDIX A

ADDING MEMORY, CASSETTES, AND OTHER OPTIONS

You can purchase additional memory for your printer, accessories to feed paper or envelopes. The LaserWrite Select 300 can have up to three paper sources simultaneously installed:

- the paper cassette that comes with the printer
 - a second paper cassette in a feeder that fits as a base below the printer
 - a multipurpose tray for various paper sizes, which fits into the manual feed slot and feeds paper.
- This appendix contains instructions for installing and using the paper-handling accessories.

You can order the following optional equipment where you purchased your printer:

- sheet feeder with 250-sheet universal-size cassette (accepts the same paper size as the printer)
- sheet feeder with 500-sheet U.S. Letter cassette
- sheet feeder with 500-sheet A4 cassette
- multipurpose tray, which automatically feeds up to 50 sheets of variable paper sizes
- 250-sheet U.S. Legal cassette (fits the standard or optional 250-sheet feeder)
- 250-sheet universal-size cassette
- envelope cassette (fits the standard or optional 250-sheet feeder)
- 1 MB memory upgrade (lets you print more complex pages)
- 4 MB memory upgrade (required to use PhotoGrade)
- PostScript-compatible controller board

Installing and using the optional sheet feeder and cassette

The optional sheet feeder looks and works exactly like the built-in feeder that forms the left side of the printer. The illustration here depicts the 250-sheet feeder, but apply also to the 500-sheet size.

1. Turn off the printer and unplug the power cord.
2. Remove and set aside the paper cassettes from both the printer and the sheet feeder.
3. Set the sheet feeder on a flat, stable surface and lower the printer over it so the side of the feeder is flush with the printer's side.
4. Snap each of the four plastic retainer clips into its slots to lock the upper and lower cassettes in place. Press the retainer clip until it snaps into place.
5. Replace the paper cassettes into the feeders, plug in the power cord, and turn on the printer.

Using the paper cassette in the sheet feeder

1. Choose Print from the File menu.
2. Choose Lower Cassette from the Paper Source menu in the Print dialog box.
3. Click Print.

Installing and Using the Optional Multipurpose Tray

The multipurpose tray can be used with various paper sizes. The tray fits over the manual feeder.

1. Holding the tray folded as shown, insert the pin on the left side of the tray into the hole.
2. Slide back the black latch at the right side of the tray and snap the tray into position. Insert this side first.

Push the latch to the left, position the tray, and release.

3. Tilt open the first flap of the tray, then pull out the extensions as shown.

Do not stack the paper above this tab.

Slide the paper guides to fit your paper.

4. Stack paper in the tray and adjust the paper guides to fit, but not so snugly as to hamper paper movement.

Using the paper in the multipurpose tray

1. Choose Print from the File menu.
2. Choose Manual Feed from the Paper Source menu in the Print dialog box.
3. Click Print.

Loading and Using the Envelope Cassette

The optional envelope cassette automatically feeds up to 30 standard weight envelopes.

To load the envelope cassette:

1. Stack the envelopes as shown: face up (with the flap down), with the top edge against the top of the cassette.
2. If the side brackets need adjustment, slide them to fit against the stack of envelopes.
3. If the rear bracket needs adjustment, squeeze both sides and slide it until the top lip of the cassette is flush with the top edge of the envelopes. Top edge here with flap down.

Adjust brackets to fit your envelope.

This attachment is for a postcard size that is standard in Japan. If you do not need it, do not use it.

Printing envelopes

1. Open the program in which you'll be printing.
2. Choose Page Setup from the File menu.
3. Choose the envelope size in the Page Size pop-up menu.
4. Click the icon for horizontal page orientation.

5. Click OK.

The Page Setup dialog box closes.

6. Type the address in the position you want and print.

Some trial and error may be necessary to get the address block in the exact position you want.

APPENDIX B

SPECIFICATIONS

Marking engine

- Fuji Xerox laser-xerographic

Print quality

- 300 dots per inch for text and graphics, enhanced by FinePrint resolution PhotoGrade graphics

Printer RAM

- 512K of RAM standard, upgradeable to 1.5 MB or 4 MB

Printer fonts

- TrueType font families standard. The LaserWriter Select 300 can support additional fonts for PostScript

Speed

- Five pages per minute maximum. Actual speed depends on the images printed and the computer

Interface

- Serial, externally locked

Recommended duty cycle

- Minimum life expectancy is 150,000 pages, with no monthly page limit.

Paper feed

- Automatic feed from paper cassettes and optional multipurpose tray; manual feed for single sheets

Printing materials

Apple recommends 20-lb. photocopy or typewriter bond (75 g/m²). You can use 16-lb. (60 g/m²)

Paper sizes and capacity

The standard paper cassette can hold up to 250 sheets of U.S. Letter, A4, A5, B5, and Executive

The optional multipurpose tray can hold up to 50 sheets of all the above sizes of paper, or
Imageable area

- Maximum printable line: 203 mm (8.00 in.)
- Minimum top and bottom margins: 6.35 mm (0.25 in.)
- Minimum left and right margins: 6.35 mm (0.25 in.)

Actual imageable area may vary depending on the application program. The printer senses as:

Dimensions

- Height: 25.3 cm (8.0 in.)
- Width: 38 cm (15 in.)
- Depth: 45 cm (18.3 in.)

Weight

- 12 kg (26 lb.)

Operating environment

Temperature

- 50° to 90° F (10° to 32° C)

Humidity

- 20 to 80 percent, noncondensing

Toner cartridge transit environment

- -4° to +104° F (-20° to +40° C)

Input electrical requirements

U.S./Japan

- 100-115V (10%), 50-60Hz (2 Hz)

Europe/Australia

- 220-240V (10%), 50 Hz (2 Hz)

Power consumption

Operating

- 450 W maximum at 115 V or 220 V

Ozone emission

- 0.05 parts per million maximum, measured in accordance with ECMA 129 or UL114 standards for