

**LOCOMOTIVE
SOFTWARE**

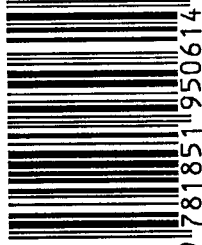
PCW External Printers Guide

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While every effort has been made to verify that this software works as described, it is not possible to test any program of this complexity under all possible circumstances. Therefore the LocoScript 2 printer software is provided 'as is' without warranty of any kind either express or implied.

The particulars supplied in this manual are given by Locomotive Software in good faith. However, the printer software is subject to continuous development and improvement, and it is acknowledged that there may be errors or omissions in this manual. In particular, the examples, menus and messages shown in this manual may differ in detail from those actually shown on the screen.

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Introduction

One of LocoScript 2's many strengths is the extraordinary range of printers it can support. All PCW computers are supplied with a *built-in* printer – a dot-matrix printer on the 8256 and the 8512, and a daisy-wheel printer on the 9512 – but many people prefer the extra quality, speed, and typefaces which can be provided with an *external* printer.

This booklet explains what you need to know in order to use an external printer with LocoScript. If you only use the built-in printer, you don't need this booklet. The information it contains is only relevant to external printers.

- **Part I: Installing a new printer** explains the steps needed to add an external printer to your LocoScript system.
- **Part II: Upgrading your printer system** explains the steps to take if you acquire a new set of printer files to use with your printer, plus what to do when you buy a new printwheel or a sheet feeder attachment.
- **Part III: Printing with an external printer** explains the day-to-day use of an external printer. Much of the information here is also in Session 20 of the LocoScript 2 User Guide, and Session 23 of the PCW9512 guide. However, since that information has been revised recently, it is reproduced here for the benefit of those who do not have the up-to-date version.
- **Part IV: Troubleshooting** outlines difficulties you may get into, and suggests appropriate solutions.
- **Appendix I: Printers Supported** lists all the printers LocoScript 2 currently supports, together with details of the files available to support these. *It is essential refer to this list before you install a new printer, or upgrade your existing system, so that you can be sure you are using the correct files.*
- **Appendix II: Different types of printer** looks at the different kinds of printer that are available, their advantages and their drawbacks. Locomotive Software does not recommend any specific printer, but the information given in this Appendix may help you decide which printer suits your needs.
- **Appendix III: Option switches.** Some printers have switches or settings which can be used to configure the way the printer operates. With most printers you will not need to alter these from the way they are set at the factory. This Appendix explains how to set them for those few printers where the settings matter.

Download mode

There are now several printers – mainly 24-pin dot-matrix printers but also a couple of laser printers – that can print characters downloaded from LocoScript. These printers are described as having a Download mode.

There are two big advantages to using such a printer in its Download mode.

It allows you to print any character that LocoScript supports. Outside Download mode, you can only print the characters that the printer itself provides.

You can print these characters in a wide range of typefaces (or Fonts). 'Standard' and 'Sans Serif' fonts (each in two thicknesses) are provided as standard – but a further 10 fonts are available in the LocoFont 24 Pack.

In order to take advantage of this Download mode:

- *you need a printer that LocoScript can download characters to*
- *you also need the Printer Support Pack (or the earlier 24-pin Printer Drivers Disc)*

Appendix I will tell you whether a particular printer is suitable. (There are a few printers which have a 'Downloading' option but which will not accept downloaded characters from LocoScript, so you do need to check in Appendix I.)

Note: All 'Download' printers allow you to use the printer's built-in characters instead, if you wish. Indeed, you may well want the option of using these characters to print some of your documents. (Unfortunately, it is not possible to mix the characters you use in a single document.) To do this, you simply need to treat it as two separate printers – one when it is using its Download mode and the other when it is using the built-in characters – and install both printers.

It is important to know whether you will be able to use your printer in Download mode because this affects some of the steps you will need to take in installing your printer. It also affects which files you will need to have on your Start-up discs.

Part I:

Installing a new printer

This Part describes the steps used to install a printer which you haven't used with LocoScript before. There are separate instructions depending on whether you are using a PCW8256/8512 or a PCW9512. But whichever kind of machine you have, you will need to:

- *Make sure you are running the latest version of LocoScript*
 - *Add the files needed to support this printer to your Start-of-day disc (or another Start-up disc)*
 - *The files to add are: the Printer Driver (.PRL) file for your printer; any alternative Character Set (.#xx) files needed to support additional fonts or printwheels on your printer; and either the INSTALL.DRV or the LQ24.DRV file depending on the type of printer you are installing.*
 - *Update the Settings file*
- When you re-load LocoScript from your updated Start-of-day disc, the printer files should be automatically copied to group 0 on Drive M which is where they need to be when the printer is in use. So you will also need to ensure that you have sufficient space on Drive M for these files – particularly if you have a PCW8256 with 256k of memory. (Perhaps now is the time to consider a memory upgrade!)
- *You will probably find it helpful to study the worked examples given at the end of this section. The examples on pages 9&10 describe the installation of an Epson FX-800 printer to use its built-in characters, while those on pages 11&12 give the steps used to install a NEC P6 Plus in Download mode.*

Connecting the printer to the PCW

When you connect a printer to a PCW with a cable, there are two kinds of socket you can plug the cable into: a Parallel port and a Serial port. Some printers have both kinds of port, some have only one.

(If you have the choice we recommend using the Parallel port rather than the Serial one. If you use a Serial port, you will have more settings to make because you have to ensure the printer and LocoScript 2 are using the same conventions for sending and receiving information. If you use a Parallel port you don't need to worry about these conventions, which is why we recommend using Parallel.)

Both ends of the cable need to be plugged into the same type of port. If you have a PCW9512 and your printer has a Parallel port, then all you need is a suitable cable to plug your printer directly into the Parallel Printer connector on the back of your PCW. If, however, you have a PCW8256/8512 or your printer only has a Serial port, you need to fit an Amstrad CPS8256 Serial/Parallel (or compatible) interface to the expansion slot on the back of your PCW. Instructions for fitting should be supplied with the interface.

Installing a new printer on an 8256/8512

- 1 Consult Appendix I of this booklet to see which Printer Driver (.PRI) file you need and which (if any) alternative Character Set (.#xx) files. You also need to know whether you will be downloading characters (see page 2).
- 2 Run the LocoScript Installation program as described in the *Upgrading LocoScript 2* section of the PCW8256/8512 Update Information booklet.
When the Installation Program asks you if you want to use external printers, make sure you star the correct options for downloaded or built-in characters.
- 3 Load LocoScript from the new Start-up discs this creates.
- 4 Use the f3 Copy file option to copy the .PRI and .#xx files you've selected to group 0 of one of your Start-up discs.
If there isn't room for these files on your current discs, consult the section on 'Adding extra Support files' in the 8256/8512 Update Information booklet.
- 5 If you have copied any .#xx files, it is ESSENTIAL that the first part of their filename (up to the dot) is the same as the corresponding .PRI file. If they are different, you MUST rename either the .#xx files or the .PRI files so that the first part of the name agrees.
For example, if you intend to use the HPLASERF.#T8 Character Set file with the HPLASER.PRI Printer Driver file, you could make the names consistent by renaming the first of these to HPLASER.#T8.
If you will be downloading characters, we recommend making the names consistent by renaming the specified 24xxxx.PRI file to 24PIN.PRI.
It doesn't matter whether you rename the .PRI or the .#xx files, but you must make sure they have the same name up to the dot.
- 6 Finally, update the Settings file.
— as described opposite.

If you have followed these instructions carefully, it is likely that the printer will now work correctly. But it is possible that you may need to set some of the printer's option switches. Option switches are described in Appendix III, but it's probably easiest to try printing something now and see if it works; most printer manufacturers set the option switches suitably at the factory.

Installing a new printer on a 9512

- 1 Follow the instructions in the PCW9512 Update Information booklet to create a new Start-of-day disc. When you get to the stage of adding printer files for an external printer:
 - 1 Consult Appendix I of this booklet to see which Printer Driver (.PRI) file you need and which (if any) alternative Character Set (.#xx) files. You also need to know whether you will be downloading characters (see page 2).

- 2 Use the f3 Copy file option to copy the .PRI and .#xx files you've selected to group 0 of your new Start-of-day disc.
- 3 If you have copied any .#xx files, it is ESSENTIAL that the first part of their filename (up to the dot) is the same as the corresponding .PRI file. If they are different, you MUST rename either the .#xx files or the .PRI files so that the first part of the name agrees.

For example, if you intend to use the HPLASERF.#T8 Character Set file with the HPLASER.PRI Printer Driver file, you could make the names consistent by renaming the first of these to HPLASER.#T8.

If you will be downloading characters, we recommend making the names consistent by renaming the specified 24xxxx.PRI file to 24PIN.PRI.

It doesn't matter whether you rename the .PRI or the .#xx files, but you must make sure they have the same name up to the dot.

- 4 Copy INSTALL.DRV (to use built-in characters) or LQ24.DRV (to download), or both. They must be copied to group 0 of your Start-of-day disc.

Copy INSTALL.DRV from your latest Master disc. Copy LQ24.DRV from Disc 1 of the Printer Support Pack or the earlier 24 Pin Printer Drivers Disc.

- 5 Now 'Tidy up the Disc' as described in the 9512 Update Information booklet.

Don't erase the .PRI, the .DRV or the .#xx files you've just put on your new Start-of-day disc.

- 6 Finally, update the Settings file.

This is described in the next section.

If you have followed these instructions carefully, it is likely that the printer will now work correctly. But it is possible that you may need to set some of the printer's option switches. Option switches are described in Appendix III, but it's probably easiest to try printing something now and see if it works; most printer manufacturers set the option switches suitably at the factory.

Updating the Settings file

Whenever you make any changes to the printer files on your Start-up discs, it is important to update the Settings file on your Start-of-day disc. (If you are not sure whether you need to update or not, update anyway, as it can't do any harm.)

To update your Settings file:

- 1 Reload LocoScript using your updated Start-of-day disc by inserting this disc into Drive A and pressing the keys **[SHIFT]**, **[EXTRA]** and **[EXIT]** together.
- 2 Once the Disc Manager Screen is displayed, press **[6]** to bring the Settings menu onto the screen. Press **[5]**, check your printer is among those listed, then press **[EXIT]**. (If your printer is not there, consult Part IV of this booklet.)
- 3 There will generally now be further settings to make. You may want to make your printer the Standard printer, for instance, so that it will be the printer LocoScript

uses when it is first loaded. You may also want to set the type of paper, font or printwheel that the printer will use by default.

When you have just installed a new printer, it is particularly important to set the correct printer width and to tell LocoScript which port the printer is connected to. (Instructions for this are given in *Setting the Printer Options* below.)

If you are installing a daisy-wheel printer, you will also need to record details of its printwheels – see *Adding printwheels* in Part II of this booklet.

- 4 Press **[EXIT]** to choose the EXIT option and then press **[ENTER]**.
- 5 A message will appear offering to write the updated Settings file onto your disc. Check that your new Start-of-day disc is in Drive A and press **[ENTER]** to tell LocoScript to go ahead.
Your Settings file is now updated.

Making your printer the Standard printer

LocoScript recognises one printer as the *Standard* printer – the printer it will automatically set as the Current Printer when you load LocoScript. To set a particular printer as your Standard printer:

- 1 If you don't have the Settings menu displayed on the screen, press **[F6]** to display it.
- 2 Select **Standard printer** with the Menu cursor, and press **[ENTER]**.
You will see a list of all the printers currently known to the Settings file.
- 3 Select the printer you wish to be your new Standard printer, and press **[EE]**.
- 4 Now press **[ENTER]** to leave the menu and return to the Settings menu.
- 5 When you leave the Settings menu, you will be given the option of writing the new SETTINGS.STD back to your Start-of-day disc. Put the disc into Drive A, then accept the option.

Setting the Printer Options

Note: You may need to consult your printer's own manual in setting these options.

- 1 If you don't have the Settings menu displayed on the screen, press **[F6]** to display it.
- 2 Move the Menu cursor to **Printer Defaults** and press **[ENTER]**.
The Printer Defaults menu is then displayed.
- 3 Move the Menu cursor to **Defaults** for printer and press **[ENTER]**.
A new menu appears.
- 4 Move the Menu cursor to the name of the printer and press **[EE]**.
For example, if you copied the D630 set of printer files to your Start-of-day disc, move the cursor to D630 and press [EE].

- 5 Press **[ENTER]** again.

You then return to the *Printer Defaults* menu, which now refers to your new printer (as you can see from the *Defaults* for printer' line of the menu).

- 6 Move the cursor down to **Printer Options** and press **[ENTER]**.

(There are different versions of this menu, depending on whether you are using a PCW8256/8512 or a PCW9512. The version illustrated is the PCW8256/8512 version.)

Options for D630
Printer Width 132
Top of form line 7
Sheet feeder
Interface options
✓ CPS 8256 Parallel
CPS 8256 Serial

- 7 Set the printer width.

The number you need here is the length of the longest line of text your printer can print, expressed in tenths of an inch. (This is often, but not always, the width of the widest paper on which it can print.) The permitted range of values is 40 (4 inches) to 290 (29 inches).

For example, if the widest paper you can use is 14.2" wide but the printer cannot print on either the first or the last 1/8", the number you need is 132. With the Menu cursor on **Printer width**, type this number and press **[ENTER]**.

- 8 Tick the Interface option (**Parallel** or **Serial**) corresponding to the connector to which the printer is attached. To do this, position the Menu cursor over the correct option and press **[EE]**.

On the PCW9512 there may be two parallel options: **Parallel** (for printers which connect to the PCW's built-in parallel port) and **CPS 8256 Parallel** (for printers which connect to the parallel port on the Parallel/Serial interface). Make sure you tick the correct one.

- If you select one of the Parallel ports, this is all you need to specify but if you select a Serial port, the menu is extended because you need to set further options – which baud rate it works at and what parity and protocol it uses.

Baud: The baud rate specifies the rate at which information should be sent to the printer. Type the baud rate your printer requires and press **[ENTER]**.

If your printer gives you a choice of baud rates, we recommend you to set the highest baud rate (up to 9600) it can use. Any non-standard value you type will be converted to one of the standard baud rates (300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600).

Parity: This specifies the type of checks that are made to ensure that information is sent correctly. Select the parity required by your printer and press **[EE]**.

Protocol: This specifies how the printer and LocoScript will let each other know that they are ready to send and receive information. Select the protocol appropriate to your printer and press **[EE]**.

The printer's own manual should tell you what you need to set in each case.

- 9 When you have finished making these settings, press **[ENTER]**. You will be returned to the *Printer Defaults* menu, where you can set the default paper, font or printwheel details as described overleaf.

Setting the default paper, font or printwheel

You can also record in the Settings file the type of paper, the font or a printwheel that you want your printer to be initially set up for. If you only ever use one type of stationery or one printwheel on a particular printer, you need never worry about setting up this printer again. LocoScript looks after it for you.

The way to set these Defaults is once again via the Printer Defaults option in the Disc Manager Screen's f6 Settings menu. This menu contains details of a Paper Type, Character Set and Character Style. On a dot-matrix printer or a laser printer, the Default Character Set defines the font you want to use (the Character Style can be ignored); on a daisy-wheel printer, the Default Character Set and Character Style together specify the printwheel you require.

This menu can be used to set the defaults for any printer that you have installed. To select the printer you wish to set the defaults for, move the Menu cursor to Defaults for printer and press **[ENTER]**; then when the menu of printers appears, move the cursor to the printer you want and press **[H]** followed by **[ENTER]**.

To set the Paper Type, check that the Menu cursor is on Default Paper Type and then press **[ENTER]**. LocoScript then displays a list of the Paper Types it knows.

Move the Menu cursor to the Paper Type you want and press **[H]** in the usual way. If you have selected a Single Sheet type of stationery, now set whether this is to be used Landscape (ie. sideways) or Portrait (lengthways). Finish setting the Paper Type by pressing **[ENTER]**; you are then returned to the Printer Defaults menu.

To set the Character Set, move the Menu cursor to Default Set and press **[ENTER]**. This gives you a list of all the Character Sets for your chosen printer. Select the Character Set you want by moving the Menu cursor to it and pressing **[H]**. Then press **[ENTER]** to return to the Defaults menu.

To set the Character Style, select Default Style and press **[ENTER]** to see the menu listing all the Character Styles that have been set up for your chosen Character Set. Pick out the Style you want by moving the Menu cursor to this option and pressing **[H]**; then press **[ENTER]** to return to the Defaults menu again.

Note: The printer files are typically set up with dummy Character Styles called *Vanilla*. A dummy Style is fine to use for a dot-matrix printer, but when you are using a daisy-wheel printer, it is important to select a Character Style that properly represents the printwheel you will be using. In particular, it is essential that the size associated with the Character Style is correct; otherwise your text may not be underlined correctly when using this wheel. If no such style is available, you may select one of the available styles but only temporarily. At your earliest opportunity, you should to set up a Character Style specifically for each printwheel, as described in *Adding printwheels* in Part II of this booklet, and then come back and select this as the Default Style.

When you have finished setting all the defaults for this printer, either set all the defaults for another printer or select the **EXIT** option at the bottom of the menu and return to the Settings menu. If you are offered the option of writing the new Settings file to disc when you leave the Settings menu, you should make sure your Start-of-day disc is in Drive A, and then accept this option.

WORKED EXAMPLES

Example 1: Installing an FX-800 printer on a PCW8256/8512 (built-in characters)

- Look up Epson FX-800 in Appendix I. This tells you that the files available for this printer are FX800.PRI and an extra Character Set file, FX800.#SS. Download isn't listed as an option for this printer so you will be using the printer's built-in characters.
- Run the Installation program on Side 2 of your Master disc. When the program asks you to select the printer(s) you want to use, include External printers using printer's built-in characters in your selection.
- Load LocoScript 2.
- Copy (using the f3 File menu) FX800.PRI and FX800.#SS to group 0 on one of your Start-up discs. Make sure that you copy from a disc supplied for use with LocoScript v2.12 or later.
(It is just possible that there may not be room on the disc to store this file. If you need to use another disc, read the section 'Adding further Support files' in the Update Information booklet.)
- Reload LocoScript from your Start-of-day disc by holding down **[SHIFT]** and **[EXTRA]** while you press **[EXIT]**. Then press **[H]** to bring the Settings menu onto the screen.
- Move the cursor to Printer Defaults and press **[ENTER]**. Move the cursor to Defaults for printer and press **[ENTER]**. With the cursor over FX800, press **[H]**. Press **[ENTER]** to return to the Printer Defaults menu.
- With the cursor over Printer options, press **[ENTER]**. Set the maximum width of the printer – in this case to 80 – so that LocoScript doesn't try to print past the right hand edge of the printer. Select the appropriate option to tell LocoScript whether the printer is plugged into a parallel or serial interface.
If your printer is connected through the Serial interface, you'll have some extra settings to make. See 'Setting the Printer Options' on page 6.
- Press **[ENTER]**, then **[EXIT]**, and then **[ENTER]** to return to the Settings menu.
- Move the cursor to Standard Printer and press **[ENTER]**. With the cursor over FX800, press **[H]**. Selecting the printer on this menu means that LocoScript will be ready to use the printer whenever you load LocoScript. Press **[ENTER]** to return to the Settings menu.
- Press **[EXIT]** to choose the **EXIT** option and then press **[ENTER]**. When the option to write SETTINGS.STD on the disc in Drive A appears, check that your Start-of-day disc is in Drive A, and press **[ENTER]**.
- Reload LocoScript from your Start-of-day disc by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]**.
These steps have set up LocoScript to use the Epson FX-800 printer.

Example II: Installing an FX-800 printer on a PCW9512 (built-in characters)

- Look up Epson FX-800 in Appendix I. This tells you that the files available for this printer are FX800.PRI and an extra Character Set file, FX800.#SS. Download isn't listed as an option for this printer so you will be using the printer's built-in characters.
- Create a new Start-of-day disc, as described in the 9512 Update Information Booklet. Load LocoScript 2 from it.
- Copy (using the f3 File menu) INSTALL.DRV from your most recent Master disc to group 0 of your Start-of-day disc.
- Copy FX800.PRI and FX800.#SS to group 0 of your Start-of-day disc. Make sure that you copy these files from a disc supplied for use with LocoScript v2.12 or later.
- Reload LocoScript from your Start-of-day disc by holding down **[SHIFT]** and **[EXTRA]** while you press **[EXIT]**. Then press **[F6]** to bring the Settings menu onto the screen.
- Move the cursor to Printer Defaults and press **[ENTER]**. Move the cursor to Defaults for printer and press **[ENTER]**. With the cursor over FX800, press **[F4]**. Press **[ENTER]** to return to the Printer Defaults menu.
- With the cursor over Printer options, press **[ENTER]**. Set the maximum width of the printer – in this case to 80 – so that LocoScript doesn't try to print past the right hand edge of the printer. Select the appropriate option to tell LocoScript whether the printer is plugged into a parallel or serial interface.
If your printer is connected through the Serial interface, you'll have some extra settings to make. See 'Setting the Printer Options' on page 6.
- Press **[ENTER]**, then **[EXIT]**, and then **[ENTER]** to return to the Settings menu.
- Move the cursor to Standard Printer and press **[ENTER]**. With the cursor over FX800, press **[F4]**. Selecting the printer on this menu means that LocoScript will be ready to use the printer whenever you load LocoScript. Press **[ENTER]** to return to the Settings menu.
- Press **[EXIT]** to choose the EXIT option and then press **[ENTER]**. When the option to write SETTINGS.STD on the disc in Drive A appears, check that your Start-of-day disc is in Drive A, and press **[ENTER]**.
- Reload LocoScript from your Start-of-day disc by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]**.
These steps have set up LocoScript to use the Epson FX-800 printer.

Example III: Installing a NEC P6 Plus in Download mode on a PCW8256/8512

- Look up NEC P6 Plus in Appendix I. This tells you that the Printer Driver file needed to use this printer in Download mode is 24NECP6.PRI, while Note ① on page 67 tells you about the Character Set files that are available: 24PIN.#ST; 24PIN.#SS; 24PIN.#LT; and 24PIN.#LS.
 - Run the Installation program on Side 2 of your Master disc. When the program asks you to select the printer(s) you want to use, include External printers using downloaded characters in your selection.
 - Load LocoScript 2.
 - Copy the following files to group 0 of one of your Start-up discs. They are found on discs in the Printer Support Pack and on the (obsolete) 24-pin Printer Drivers Disc.
 - 24NECP6.PRI. As you copy 24NECP6.PRI, you must rename it to 24PIN.PRI. (If you don't carry out this step, the name won't match the Character Sets and you won't be able to print at all on your printer.)
 - 24PIN.#ST and 24PIN.#SS (the Standard & Sans Serif typestyles) or 24PIN.#LT and 24PIN.#LS (the lighter versions of the same typestyles). If you want, you can copy all four files allowing you to choose which typestyle you want, and whether you want it printed in normal or light weight.
- (You may need to use more than one disc to store these files: see the section on Adding further Support files in the PCW8256/8512 Update Information booklet.)
- Reload LocoScript from your Start-of-day disc by holding down **[SHIFT]** and **[EXTRA]** while you press **[EXIT]**. Then press **[F6]** to bring the Settings menu onto the screen.
 - Move the cursor to Printer Defaults and press **[ENTER]**. Move the cursor to Defaults for printer and press **[ENTER]**. With the cursor over 24PIN, press **[F4]**. Press **[ENTER]** to return to the Printer Defaults menu.
 - With the cursor over Printer options, press **[ENTER]**. Set the maximum width of the printer – in this case to 80. Select the appropriate option to tell LocoScript whether the printer is plugged into a parallel or serial interface.
If your printer is connected through the Serial interface, you'll have some extra settings to make. See 'Setting the Printer Options' on page 6.
 - Press **[ENTER]**, then **[EXIT]**, and then **[ENTER]** to return to the Settings menu.
 - Move the cursor to Standard Printer and press **[ENTER]**. With the cursor over 24PIN, press **[F4]**. Selecting the printer on this menu means that LocoScript will be ready to use the printer whenever you load LocoScript. Press **[ENTER]** to return to the Settings menu.
 - Press **[EXIT]** to choose the EXIT option and then press **[ENTER]**. When the option to write SETTINGS.STD on the disc in Drive A appears, check that your Start-of-day disc is in Drive A, and press **[ENTER]**.
 - Reload LocoScript from your Start-of-day disc by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]**.
These steps have set up LocoScript to use the NEC P6 Plus printer.

- 6 If either the new .PRI or the .#xx files have a different first part to their name (up to the dot) from that of the .PRI and .#xx files you erased, give the new files the old name.

For example, if you have replaced LQ1500.PRI by LQ1500X.PRI, rename the new file LQ1500.PRI.

The advantage in doing this is that the new printer files will then automatically be selected by documents that have the old printer name recorded as the Intended printer. The alternative is to re-select the Intended printer in every document that uses this printer.

Note: You must in any case ensure that the new .PRI file and the new .#xx files have the same first part to their name.

- 7 Finally, update the Settings file.
— as described on page 5.

On a 9512:

Follow the instructions in the 9512 Update Information booklet to create a new Start-of-day disc. When you get to the stage of adding printer files for an external printer:

- 1 Consult Appendix I of this booklet to see which .PRI and which (if any) .#xx files you should now use. You also need to know whether you will be downloading characters (see page 2).
- 2 Use the F3 Copy file option to copy the .PRI and .#xx files you've selected to group 0 of your new Start-of-day disc.
- 3 If either the new .PRI or the .#xx files have a different first part to their name (up to the dot) from that of the .PRI and .#xx files you erased, give the new files the old name.

For example, if you have replaced LQ1500.PRI by LQ1500X.PRI, rename the new file LQ1500.PRI.

The advantage in doing this is that the new printer files will then automatically be selected by documents that have the old printer name recorded as the Intended printer. The alternative is to re-select the Intended printer in every document that uses this printer.

Note: You must in any case ensure that the new .PRI file and the new .#xx files have the same first part to their name.

- 4 Copy INSTALL.DRV (to use built-in characters) or LQ24.DRV (to download), or both. They must be copied to group 0 of your Start-of-day disc.

Copy INSTALL.DRV from your latest Master disc. Copy LQ24.DRV from Disc 1 of the Printer Support Pack or the earlier 24 Pin Printer Drivers Disc.

- 5 Now 'Tidy up the Disc' as described in the 9512 Update Information booklet.

Don't erase the .PRI, the .DRV or the .#xx files you've just put on your new Start-of-day disc.

- 6 Finally, update the Settings file.
— as described on page 5.

Adding extra Character Set files

There are three reasons why you may wish to add further Character Sets after you have installed your printer.

- *You may have bought a new font card or printwheel which needs a Character Set file which you've not needed before.*
- *You may have bought LocoFont 24, and wish to add its new Character Sets to those currently installed for your download printer.*
- *You may have designed your own Character Set file using either the CHARKIT or the LocoChar 24 programs.*

To install the Character Set:

- 1 Copy the Character Set file (the .#xx file) to group 0 of one of your Start-up discs.
- 2 Update the Settings file as explained in the section *Updating the Settings File*, on page 5.
- 3 If the Character Set you have installed is for a daisy-wheel printer, you must then carry out the steps in *Adding printwheels* overleaf.

Note: You cannot have more than ten Character Sets installed at once. If you have already reached the limit, you must remove a Character Set (as described in the next section) before you can install any more.

Removing a Character Set

— to make space for a new Character Set both on Drive M and in the Settings file.

- 1 Erase the Character Set file from your Start-up discs.
Remember that the built-in printer on the PCW8256/8512 and any printer which accepts downloaded characters must have at least one Character Set file to work with.
- 2 Reload LocoScript by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]** together.
- 3 Press **[F5]** to call up the Settings menu. Select the option For printer and press **[ENTER]**.
- 4 You will see a list of printers. Use the Menu cursor to select the printer whose Character Set you have deleted, press **[F5]** to tick it, and then press **[ENTER]** to return to the Settings menu.
- 5 Now move the Menu cursor to the option For character set and press **[ENTER]**.
- 6 You will see a list of Character Sets, with one whose files you have deleted marked with a question mark. Select this set, and press **[F5]**. The Character Set's name will disappear from the menu and you will be returned to the Settings menu.
- 7 Press **[EXIT]** followed by **[ENTER]** to leave this menu. You will see a message asking if you want to write the new Settings file back to the disc in Drive A. Check that your Start-of-day disc is in Drive A, and press **[ENTER]**.
The Character Set is now removed.

Adding printwheels

Each printwheel for an external daisy-wheel printer needs to be recorded as a separate Character Style in LocoScript's Settings file.

The first thing to establish is which Character Set describes the arrangement of the characters on the printwheel. To do this, check that your printer is selected as the Current printer (see Part III), fit the printwheel in the printer and use the steps given on page 27 to select the Current Character Set. Then print a sample document using the Current printer and the Current Character Set/Style. If you selected the wrong Character Set, some of the characters will be wrong.

Once you know which Character Set to use, set up the Character Style as follows:

- 1 Display the Disc Manager Screen, insert your Start-of-day disc, press **[Z]** to signal the disc change and then press **[F6]** to display the Settings menu.
- 2 Select For printer and press **[ENTER]**.
- 3 Tick the appropriate printer, and then press **[ENTER]** to return to the Settings menu.
- 4 Select For character set and press **[ENTER]**.

You then see a list of the Character Sets associated with this printer.

- 5 Select the Character Set that is appropriate to your wheel and press **[ENTER]**. LocoScript returns you to the Settings menu, which now shows the names of the printer and the Character Set you have just picked out.

Character Style
Name : Elite Pitch : 12
For Character Set UK ASCII 96 For printer D630
► Create new Style

- 6 You are now ready to start defining the Character Style. Select New Character Style and press **[ENTER]**: a menu like this will then appear.

Type in the name of your new printwheel, then move the cursor to the next line of the menu, type its pitch and press **[ENTER]**.

These details are on the wheel itself, which will have something like Elite 12 written on it. Here, the name of the wheel is Elite and its pitch is 12.

Often you can just copy the name on the printwheel but you will have to shorten any names that are more than 12 characters. The name doesn't have to be exactly what is marked on the wheel, just near enough to remind you. The pitch, however, does need to be correct.

- 7 Press **[ENTER]** to select the Create new Style option in the bottom section of the menu.

*When you press **[ENTER]**, LocoScript returns you to the Settings menu. If you have another new wheel to install on your system, you could do this now by repeating Steps 4 – 7 (if the wheel uses a different Character Set) or 6 – 7 (if it uses the same Character Set).*

- 8 Press **[EXIT]**, and then press **[ENTER]**. LocoScript now offers to update the SETTINGS.STD on your Start-of-day disc. Make sure that you have your Start-of-day disc in Drive A and then press **[ENTER]**.

Adding a sheet feeder

If you intend to use a sheet feeder which is not an integral part of your printer (ie. it is an optional extra) you must follow these instructions. If your sheet feeder is built into the printer (or you don't have a sheet feeder) you can ignore this section.

- 1 Display the Disc Manager Screen. Press **[F6]** to enter the Settings menu.
 - 2 Check that the menu is showing the name of the printer you wish to install the sheet feeder on. If it isn't, select For printer, press **[ENTER]**, select the correct printer, press **[H]**, then press **[ENTER]** again to return to the Settings menu.
 - 3 Select Printer defaults and press **[ENTER]**.
 - 4 Select Printer options and press **[ENTER]**.
 - 5 Select Sheet feeder and press **[H]**.
 - 6 Press **[ENTER]**, followed by **[EXIT]**. Now press **[ENTER]** again to return to the previous menu, then **[EXIT]** followed by **[ENTER]** yet again. You will see a message offering to write your new Settings file back to the disc in Drive A. Put your Start-of-day disc in Drive A, and press **[ENTER]** for the last time.
- Your printer now has the sheet feeder option set as its default. To learn about using the sheet feeder, see Part III of this booklet.*

Removing a printer

—for example, to make space for a new printer in the Settings file.

- 1 Erase the printer's PRI file from group 0 of your Start-up disc or discs. If there are any Character Set files with the same name erase them too.
For example, if you erase M1818.PRI, you should also erase M1818#QR, if it's there.
 - 2 If the only printer files remaining on your system are for downloaded characters or the built-in printer, you can erase INSTALL.DRV from your Start-of-day disc. Similarly, if the only files remaining are for built-in characters or the built-in printer, you can erase LQ24.DRV.
 - 3 Reload LocoScript by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]** together.
 - 4 Press **[F6]** to call up the Settings menu. Select For printer and press **[ENTER]**.
 - 5 You will see a list of printers, with the printer whose files you have deleted marked with a question mark. Select this printer, and press **[GUT]**. The printer's name will disappear from the menu and you will be returned to the Settings menu.
 - 6 Press **[EXIT]** followed by **[ENTER]** to leave this menu. You will see a message asking if you want to write the new Settings file back to the disc in Drive A. Check that your Start-of-day disc is in Drive A, and press **[ENTER]**.
- If you wish to remove the built-in printer, you can remove the files MATRIX.PRI and PCW9512.PRI and their associated Character Set files but you cannot remove the printer details from the Settings file.*

Printing with an External Printer

This Part describes the everyday use of an external printer. Where we have given a specific example, you will, of course, have to substitute the actual name of your printer and its associated Character Sets and Styles. (We have used D630, UK ASCII 96 and Vanilla 10 in the examples.)

Before you can use your printer to print LocoScript documents, you must have installed it as described in Part I of this booklet and updated your Settings file to record the details of this printer (again, as described in Part I). You also need to have loaded LocoScript from your updated Start-up discs. When you do this, the printer files you added to these discs should be automatically copied to group 0 on Drive M, ready for when you want to use your printer. The first time you do this, however, it is a good idea to check that these files have indeed been copied to Drive M: if there wasn't enough room on Drive M, some of the files may be missing and you may not be able to use the printer.

Note: If you have any difficulty getting your printer to print from LocoScript, turn to the Troubleshooting section of this booklet, which starts on page 29.

What to expect from your printer

Although you can type a wide range of characters using LocoScript 2, the characters you can *print* depend on your printer. The only way in which an external printer can print the full range of characters is if your printer uses LocoScript's download characters. (This is why we recommend using your printer in Download mode if it supports this.) If you use the printer's built-in characters and your document contains a character the printer cannot print, LocoScript will substitute a space. You can see which LocoScript characters your printer is capable of by printing the ALLCHARS document, found in the Printer Support Pack.

Similarly, LocoScript supports italic, bold, and double-strike printing in both draft and high quality, but your printer may not be able to print all of these. If you ask for a print style the printer cannot provide, LocoScript will either make an appropriate substitution or ignore the instruction. Instructions to print in italic are ignored with printers which have no italic, for example. If a printer has double-strike but no bold, double-strike will be used when bold is requested. If high quality printing is not available, then double-strike draft printing will be used instead, and so forth.

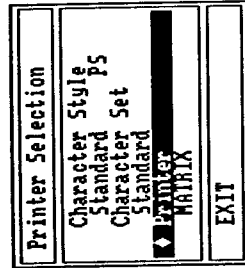
With *laser printers*, however, the issue is slightly more complicated, because a laser printer may accommodate requests for different emphasis (bold or italic), different point sizes, different spacing, orientation etc. by selecting a different font. This is explained in greater detail in Appendix II.

Setting up a document for a particular printer

Setting up your documents for the printer, font or printwheel that you intend to use is strongly advised as this ensures that LocoScript has the correct character width information to work with in laying out the document. The finished document will be noticeably better as a result. Setting the correct printer details in the document also allows LocoScript to prompt you to select the correct printer, font or printwheel when you are about to print using some other combination.

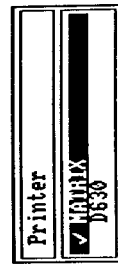
To show how it's done, we will now go through the steps used to set up a document for a 10 pitch ASCII printwheel on a D630 printer. Similar steps are used to set up a document for any printer, font or printwheel, so simply work through these steps picking out your printer, its Character Sets and Character Styles instead of the D630 printer, UK ASCII 96 Character Set and Vanilla 10 Character Style shown here.

The printer set-up that you intend to use for a particular document are recorded in its Document Set-up, so the first step is to edit the document. Once the document is on the screen, press **[F7]** and select Document set up to go into Document Set-up in the usual way (as described in Session 17 of the LocoScript 2 User Guide; Session 18 of the PCW9512 User Instructions), then press **[F6]** to display the Printer Selection menu. This menu displays the printer etc. for which the document is currently set up.



Selecting the Intended printer

The first thing we are going to set is the printer. Whenever you want to change the printer for which a document is set up, you need to select this first because the Character Sets and Character Styles available depend on the printer that is selected.



To set the printer, move the Menu cursor to the Printer line of the menu and press **[ENTER]**. A new menu then appears. This Printer menu is essentially just a list of the printers that are currently available (ie. name recorded in the Settings file *and* the relevant Printer Files in group 0 on Drive M), with a tick beside the printer the document is currently set up for. Simply move the cursor to the printer you require and press **[E]** to select it.

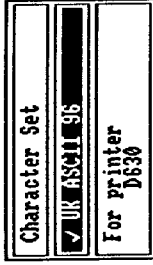
(Note: If the current printer is marked ?, the printer isn't 'available' at the moment - ie. either the appropriate Printer File is not on Drive M or its name has been removed from SETTINGS.STD. You can continue editing with the document set up for this printer and indeed may be able to select a Character Set to use on this printer but you won't be able to print on it until the appropriate Printer Files have been restored.)

Press **[ENTER]**. LocoScript then returns you to the Printer Selection menu. Notice how this now specifies the printer you selected. You may also notice that the other details in the menu have also changed - to the defaults defined for this printer (see Part I of this booklet), provided these are available. You now need to set the Character Set to select the font you require - or, on a daisy-wheel printer, to set both the Character Set and the Character Style to select the printwheel you want to use.

Selecting the Intended Character Set

It could well be that the Character Set and Character Style that are now selected are the ones you require. This will almost certainly be the case if your printer only has one font or one printwheel! If not, you now need to select the appropriate Character Set - and then appropriate Character Style if this is not selected by default. Again, the range of Character Styles offered depends on your choice of Character Set so it is important to select the Character Set first.

To set the Character Set, move the Menu cursor to Character Set and press **[ENTER]**. LocoScript then displays a list of Character Sets available for the printer listed at the bottom of the menu (ie. the printer selected in the Printer menu). Again, the selection of Character Sets you see is limited to ones that are both available in group 0 on Drive M and recorded in the Settings file, and again a ? beside the current Character Set means you can continue with this Character Set but you won't be able to print using it until the appropriate file has been restored.



As usual, the current selection is marked with a tick. When you have just set a different printer, this will be either the default Character Set for this printer or, if the default isn't available, the one at the top of the list. The Character Set was set before you selected the printer is forgotten. That's why it's important to follow your selection of a printer by selecting the Character Set. Simply move the cursor to the Character Set you require and press **[E]** to select it.

Now press **[ENTER]** - to return to the Printer Selection menu, so that you can now check and if necessary change the Character Style that you have been given.

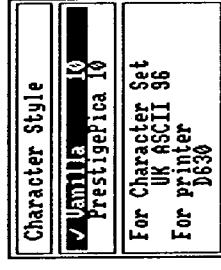
Selecting the Intended Character Style

This time move the Menu cursor to Character Style and press **[ENTER]**. The menu that appears displays the different Character Styles recorded in the Settings file for your chosen printer and Character Set (shown at the bottom of the menu). The number given alongside each style name tells you the Character Pitch the character style was designed for.

Again the menu works in exactly the same way as the previous ones - with the current selection marked with a tick, but as you have just selected a new Character Set, this is simply the default Character Style for this Character Set which is also the one at the top of the list.

With a dot-matrix printer, you will probably be offered just one Character Style but if you select a daisy-wheel printer, you may see many different Styles corresponding to the different printwheels you have with the same Character Set on them.

The Character Style to choose (where you have a choice) is the one that describes the printwheel you intend using when you print the document. If you can't decide between two that offer similar characters and the same typestyle but at different pitches, choose the printwheel that matches the Character Pitch used in the



document. For example, for documents that use 10-pitch characters, use a 10-pitch wheel; for documents that use 12-pitch characters, use a 12-pitch wheel. (If the document uses a mixture of these character sizes, then it will probably be best to choose the 10-pitch wheel because it is better for the 12-pitch sections to look closely spaced than for the 10-pitch sections to look excessively spaced.)

Select the Character Style you want as before – by pointing to it with the Menu cursor and pressing [E]. Then press [ENTER] to return to the Printer Selection menu. This should now be set up for the printer, Character Set and Character Style you require.

Leaving the menu

Leave the Printer Selection menu by moving the Menu cursor to the EXIT option and pressing [ENTER]; then press [EXIT] followed by [ENTER] to return to the document itself. Finally, exit from the document and save the new version on the disc. Before closing the document, LocoScript works through the text, re-laying it. The steps you have just taken have given LocoScript a new set of character widths to work with – which might change how the text needs to be laid out.

• *When you want to set up the document for a different printhead or a different font, you don't need to select the printer again – just the Character Set and the Character Style, or in the case of a printhead, maybe just the Character Style. You still use the Printing menu but this time you just select the Character Set or the Character Style option as appropriate. You don't have to start by selecting the printer.*

Setting up documents for laser printers:

If you set up a document for printing on a laser printer, then as well as setting your chosen font as the Intended Character Set, you must also set the Character Pitch used in the document to PS (assuming you have selected a PS font). Otherwise your document may be printed in a completely different typeface.

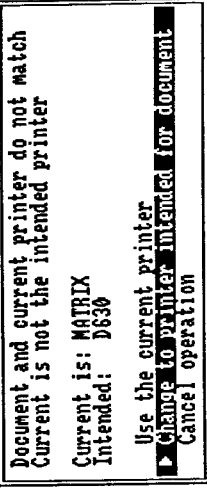
The reason for this lies in the way laser printers accommodate requests for different print styles, character sizes etc. by selecting a different font. It doesn't matter that you initially asked to use a proportionally-spaced font. If you don't select Character Pitch PS, the laser printer will spot that it is being asked to print in a fixed pitch and change to a fixed pitch font to do this.

While at first it seems something of a drawback, you can actually turn this quirk of laser printers into a useful feature because it means you can print sections of a document in a different typeface simply by marking them to be printed in a different Character Pitch. Suppose, for example, that your printer offers Times as its proportionally-spaced font and Courier as its fixed-pitch font. You could print most of your document in Times by setting this as the Intended Character Set and making the overall Character Pitch PS but put individual words into Courier by setting Character Pitch 10 for these.

Similar changes of typeface can also result from selecting different print styles such as Bold + Italic. If this combination of print styles isn't available in the current typeface, the laser printer may select a different typeface simply to meet this styling request. For further details, see Appendix II.

Printing a document on the Intended printer

The steps used in printing a document that has been set up for an external printer are essentially the same as those used to print a document set up for the PCW's built-in printer. However, before it prints, LocoScript may display messages similar to this:



To understand why this message has appeared, you need to understand a bit more about how LocoScript works with printers.

All the time you are using LocoScript, it is set up for a particular combination of printer, Character Set and Character Style known as 'Current' printer set-up. This is the printer set-up that LocoScript currently expects to use when you next ask it to print.

Before printing the document, LocoScript compares the 'Intended' printer set-up defined in the document with its 'Current' printer set-up and responds to any differences by displaying Alert messages on the screen – first about any difference in the printers that are specified; then about any difference in the Character Set Style (i.e. fonts); and lastly about any difference in the Paper Type selected for the document.

What's happened here is that LocoScript has spotted that the document you have asked it to print is set up for a different printer.

When this Alert message appears, it normally offers three options – printing on the 'Current' printer (i.e. the one LocoScript is currently set up for), printing on the 'Intended' printer (i.e. the one set in the Document Set-up) or cancelling the operation. However, the option to change to the Intended printer won't be offered unless:

- the Intended printer is one of the printers recorded in the Settings file;
- the Printer Files it needs are currently in group 0 on Drive M; and
- the interface for the printer was present when LocoScript 2 was loaded

All three conditions have to be met before LocoScript can prepare itself for your chosen printer.

To change to the printer specified in the document, you just select the Change to intended option and press [ENTER]. Do this now (assuming that it is offered). The Intended printer then becomes the Current printer, and the Current Character Set, Character Style and Paper Type all change to the defaults defined for this printer.

LocoScript then carries on its comparison of the Current printer set-up against the Intended printer set-up, displaying further Alert messages as necessary. To print on the Intended printer set-up, you need to select the Change to intended option in each message that is displayed.

Finally, LocoScript displays a 'Check-out' menu specifying the details that you would then be setting, and giving you the option of either proceeding or cancelling the operation altogether.

Before proceeding, check that the printer set-up specified in this message corresponds to the actual printer set-up that LocoScript is about to use, then press **[ENTER]**. LocoScript sets itself up for this printer and then prints the document on the 'right' printer. This printer set-up then becomes your Current printer set-up – until you either load LocoScript 2 again or you set it up to use another printer.

Note: If you immediately print the same document again, LocoScript won't display any messages this second time. Since changing to the Intended printer set-up on the previous printing, the Current and Intended printer set-ups now match and so there is no need for any message.

IMPORTANT: You should always check that the printer that LocoScript is expecting is actually connected to your machine and, if this is a daisy-wheel printer, that you have the correct printwheel on the printer. LocoScript has no way of detecting which printer is attached and so will assume that it is the correct one. If you don't check, you might just print rubbish.

Handling single sheet stationery

While it is printing, LocoScript 2 keeps track of its position on the paper. When LocoScript 2 knows the sheet of paper is finished, it stops printing and waits for you to insert the next sheet. Only when it knows the next sheet is available will printing continue. By keeping track of what is going on in this way, LocoScript 2 avoids printing on the platen or otherwise losing part of your document.

While you are using the built-in printer, this is all nice and simple. LocoScript detects you pulling back the bail bar to load the next sheet. LocoScript then automatically enters Printer Control State and, because it knows you are loading paper, it cancels the 'Waiting for paper' state. Once you are sure the paper is straight, you simply press **[EXT]** and LocoScript continues printing.

All this is no different in principle with any other printer, but unfortunately it is not possible for LocoScript to know when you have put the next sheet of paper in. Not all printers can sense paper; there is no standard way of signalling paper or the bail bar state; and the CP58256 interface doesn't implement the Centronics 'Paper Out' signal anyway. As a result, the steps needed to handle single sheet stationery are somewhat different on an external printer – and they differ again, depending on:

- whether you have a sheet feeder on your printer
- whether this sheet feeder is an integral part of the printer or an attachment you fit on as an extra
- or you have to feed single sheet stationery by hand.

If your printer has a sheet feeder

If your printer has a sheet feeder built into it (as many laser printers have) and you are using the Printer Driver that we recommend for this printer, there is nothing to do except to make sure that there is paper in the sheet feeder. The information that the printer has a sheet feeder is recorded in the Printer Driver and so LocoScript is automatically set up to use it.

Where the sheet feeder is an optional extra which you add to the printer, you need to proceed as follows:

Fit the sheet feeder to your printer and make any settings that are required on the printer itself. There may be an option switch that you need to set or you may need to change some of the front panel settings. See your printer manual for details.

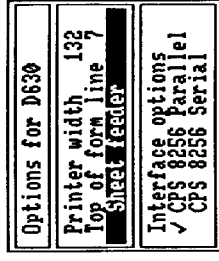
Once the sheet feeder is fitted, press **[F10]** to go into Printer Control State. Quickly check that the correct printer and paper are selected (this is shown on the second information line) and then press **[A]** to display the Options menu.

Move to the Sheet feeder option in this menu, press **[E]** to select this and then press **[ENTER]** to close up the menu. Sheet feeder should now be added to the second Information line. Finally, press **[EXT]** to leave Printer Control State. All you have to do now is keep the printer supplied with paper.

When you want to use the printer without the sheet feeder – for example, to print on continuous stationery – you will need to clear the Sheet feeder setting.

The formal way to do this is to display the f8 Options menu in Printer Control State, move the cursor to the Sheet feeder option, press **[E]** to clear this option, and then press **[ENTER]** and **[EXT]** as before. However, simply setting up LocoScript for a continuous type of stationery is sufficient. Because sheet feeders can only handle single sheet stationery, LocoScript responds by displaying an Alert message which gives you the choice of: changing the Paper Type (to allow you to select the single sheet stationery used in the sheet feeder); confirming that the sheet feeder has been removed and the printer is now set up for continuous stationery; or cancelling. If you select the second of these options, LocoScript clears the Sheet feeder setting for you.

• If you intend to keep the sheet feeder attached to the printer, then you should use the f6 Settings menu to set Sheet feeder as one of the default printer options for this printer. Then, whenever you select this printer, the Sheet feeder option will automatically be selected for you. How you do this is described in Part II.



When hand-feeding single sheet stationery

When you hand-feed paper into an external printer, the following happens:

- 1 LocoScript 2 keeps track of its position and stops printing at the end of the page.
- 2 LocoScript 2 enters 'Waiting for paper' state and the top line of the screen changes to display Paper please. (If your printer stores text in an internal buffer before printing it, this stage may be reached before the entire page has been printed.)
- 3 Load new paper.
- 4 Press **[F7]** and enter Printer Control State.
- 5 Press **[E]**. This both clears 'Waiting for paper' and leaves Printer Control State.

LocoScript 2 continues printing.

This is the same sequence of events as on the built-in printer except you have to enter Printer Control State and clear 'Waiting for paper' by hand, because LocoScript cannot detect you performing Step 3.

If your printer is capable of detecting whether it has paper in it and automatically prevents itself from printing on the platen, there's a different approach you can take. What you do is pretend to LocoScript that you have a sheet feeder fitted to the printer, exactly as described above (except you don't actually have to fit anything to the printer!). This shifts the task of detecting what is happening to the paper from LocoScript to the printer, and you just have to keep the printer supplied with paper.

If your printer doesn't have this facility, you will have to use the procedure outlined above.

Note: On all printers LocoScript automatically assumes a 'Top of Form' position based on where it expects single sheet stationery to be left ready to print. Normally, this will be Line 7 (corresponding to an inch down the page), but it may assume some other figure if the printer is known to load paper to a different position. If you find that when you use single sheet stationery your text is printed either too high up or too low down on the page, then in your case the paper is being loaded to a different position. You can readily discover the true Top of Form position as follows:

*With LocoScript set up to use single sheet stationery (and if appropriate, the sheet feeder), press **[F7]** to go into Printer Control State and use the f3 Paper to modify the Current Paper Type to give it a Top Gap of 0 (see Setting up the printer for a chosen Paper Type' in Session 19 of the LocoScript 2 User Guide; Session 20 of the PCW9512 User Instructions). Load a fresh sheet of paper (with a sheet feeder, you can use the Feed to top of form option in the f1 Actions menu within Printer Control State to do this) and then use Direct Printing to print something – for example, a line of text or a line of underlines. Take the paper out, measure how far from the top of the paper this line is (in inches), multiply by 6 and round to the nearest whole number, and this will tell you the Top of Form setting you need. Set this figure in the f8 Options menu in Printer Control State (and as a default printer option in the f6 Settings menu).*

Setting up LocoScript for a particular printer

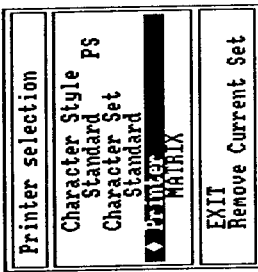
Finally we look at the steps you need to take when the printer you want to use is neither the one LocoScript is currently set up for nor the one specified in the document. In such cases you need to set up LocoScript for the printer yourself.

The steps we are about to show you are not recommended as the standard way of arranging that the printer you require is used. The problem is that the layout of the document is determined while the document is being edited and so is based on the Intended Character Set. If you then print it on a different printer or using a different Character Set, LocoScript does its best to adjust for the differences in the character widths but there are inevitably some compromises in the quality of the result. In particular, the spaces between words may either be very big or very small and the right hand edge of justified text won't necessarily be straight.

However, setting up LocoScript for your chosen printer is a quite reasonable thing to do when you want to draft documents on a faster printer or to print a document prepared on a different system when you don't want to upset its layout. The way you arrange that a particular printer is used is by making this Current printer and selecting the Use current option when the Alert message appears.

To start, press **[F7]** to go into Printer Control State and select the f5 Printer menu.

This menu has exactly the same layout as the Printing menu used to tell LocoScript to define the printer set-up in Document Set-up, and moreover, it works in exactly the same way. In other words, you start by selecting the Printer option, which gives you a menu of the printers that are currently available. You then select the printer you want and move on, through the Character Set option, to the menu of the Character Sets available for this printer – and so on to the Character Style menu.



The only difference is that there are never any '?'s in the list. No printer or Character Set can appear in the menu unless it is fully available – ie. recorded in the Settings file, its Printer Files are stored in group 0 on Drive M and the interface for the printer was attached when LocoScript was loaded.

When all is set as you require, select the EXIT option and press **[ENTER]** to leave the menu. LocoScript then selects your printer – you will see the printer name on the second Information line change – and resets it. (You should see the message Resetting printer, followed by Ready on the Information line. If the message stays locked at Resetting printer, something is wrong with your printer's set-up and you need to consult the Troubleshooting section of this Guide.)

Finally, press **[EXIT]** to leave Printer Control State and then select the document to print in the usual way. When LocoScript displays the Alert message telling you that the Current and Intended printers do not match, simply make sure that you select the Use current option.

Note: For safety, LocoScript won't let you change the Printer, Character Set or Style until it has finished printing everything you have asked it to print.

Part IV:

Troubleshooting

This part of the book is to help you sort out difficulties you may be having with external printers. We've assumed that you have attached your printer to your PCW and set up LocoScript to use the printer – or at any rate, that you think you have!

To structure the guide, we've divided the likely problems into five categories:

- *you aren't offered the option to print (below)*
- *you can't get your printer to print anything at all (page 30)*
- *your printer prints your documents, but they are distorted in some way (page 35)*
- *your printer used to work properly, but now refuses to (page 39)*
- *your printer prints one page or document, but refuses to print any more (page 40)*

Each type of problem has been given its own section in this part of the book.

Note: If, when you try to print, you get a mismatch warning – ie. a warning that the Document and Current printer (or Character Set/Style or Paper Type) do not match – this does not necessarily mean your printer is set up wrongly: see Part III.

You should also note that, while we have assumed that it is an external printer which you are having problems with, much of the advice given here is appropriate to the built-in printers as well.

The option to print is not offered

If you don't see either the Save and Print option in the Exit menu, or P=Print document on the Information lines at the top of the Disc Manager Screen, this usually means that you may have accidentally forgotten to finish printing another document – one that you printed (or tried to print) a while ago but have since forgotten about. Previous documents must be completed (or abandoned) before you can either start another document printing or change the printer you are using in any way.

To confirm this, press **[F10]** and then look at the message at the left hand end of the second line of the screen. The message you will see will probably be either Suspended or Waiting for paper. If appropriate, feed in another sheet of paper and then press **[E]** to resume printing. Alternatively, you can stop printing by pressing **[Z]**. The menu which appears gives you details of the document you're printing and allows you to abandon the printing process.

If you see a different message, turn on to the next section of this Troubleshooting guide.

The printer won't print at all

Whatever stage you're having problems at, if you can't get the printer to print then your first line of attack is always to press **[F7]** and look at the left hand end of the second line of the screen. There will be a flashing message here, and it may offer some indication of what is wrong. (It should show the name of your printer.)

Flashing part of message shows wrong printer name

In this case, LocoScript is not using the printer you want.

Press **[F5]**. If your printer is listed on the menu that appears, move the Menu cursor to the printer and press **[F4]**. Now press **[EXIT]** and the flashing printer name should now show your printer, and LocoScript will be able to print.

(If your printer name doesn't appear on the menu, it's either because the printer files aren't on Drive M, or because the printer isn't listed in the Settings file, or because the interface is missing or faulty. To identify the problem, follow the instructions on page 32, as if the message read **Printer: No Printer**)

Waiting for Paper or No Paper

In this case LocoScript thinks that the printer is out of paper – and it may even be right! Make sure there is paper loaded, and then press **[F4]**.

Printrername: Resetting printer

The first place to look for the source of this problem is the printer itself. Is the printer simply switched off or is it off-line (i.e. not ready to use)? Most printers have a push button on their front panel to set the printer on- or off-line. Failing that, check that the cable is plugged in firmly.

Another reason that you may be getting the **Resetting Printer** message is that some printers need to have paper loaded before they will acknowledge LocoScript's signals; so you should make sure there is paper in the printer.

If you think you may have solved the problem, use the **Reset printer** option in the **f1 Actions** menu to send a fresh resetting sequence to the printer. The original resetting sequence is unlikely to succeed as parts of it may have been 'swallowed'.

If this doesn't solve the problem, check which socket on the back of the PCW your printer is plugged into. The printer cannot acknowledge the resetting sequence if LocoScript is trying to talk to the printer through one socket but the printer is plugged in somewhere else. Check and correct this as follows:

- Display the **Disc Manager Screen**, then press **[F5]** (to call up the **Settings** menu).
- Select **For printer** with the Menu cursor and press **[ENTER]**. From the list of printers which appears, tick yours, and press **[ENTER]** again to return to the **Settings** menu. The name of your printer will now be displayed below **For printer**.
- Select **Printer defaults** and press **[ENTER]**.
- Select **Printer options** and press **[ENTER]**.

- See which **Interface** option is ticked. If this does not correspond to the interface your printer is plugged into, you have found the problem. (Similarly, if you are using the serial interface, check that the baud rate, parity, etc. in this menu agree with the way they are set on the printer.)

Tick the correct options, and press **[ENTER]**. Now press **[EXIT]** followed by **[ENTER]** to return to the **Settings** menu. Press **[EXIT]** followed by **[ENTER]** again, and you will be given the option of writing the new **Settings** file to the disc in Drive A. Put your **Start-of-day** disc into the drive, and accept this option.

- Reload LocoScript by pressing **[SHIFT]**, **[EXTRA]**, and **[EXIT]**.
- Set your printer as the **Current printer** by pressing **[F7]**, then **[F5]**, and then selecting your printer from the menu.

Printrername: Ready

If you see this message it means that as far as LocoScript is concerned all is well and you should look to the printer itself to sort your problem out.

In particular you should check the **SLCT** switch, if your printer has one: this switch must be set to **ON**, or the printer will effectively swallow everything that LocoScript sends to it. (The Amstrad DMP4000 is an exception – its **SLCT** switch must be **OFF**.)

Printrername: No Set

This means LocoScript can't find the correct **Character Set** file (the **.#xx** file) in group 0 on Drive M.

If you are downloading characters, the problem is likely to be that you have forgotten to rename the **.PRI** file to **24PIN.PRI**.

Alternatively, you may have got into this state either by removing the **Current Set** on the **f5 Printer Menu** in **Printer Control State** or you might have put the **Character Set** file on a Drive B disc and forgotten to use this disc when you loaded the software. Or you might have replaced one **Character Set** file with another on your **Start-of-day** disc, but forgotten to change the default **Character Set** in the **f6 Settings** menu to match. (Changing the default **Character Set** is described on page 8.)

You can recover from the **No Set** state temporarily by pressing **[F7]**, followed by **[F5]** and then selecting a **Character Set** from the list of sets available. A better solution is to correct the problem that caused the **No Set** state, for example by changing the default **Character Set** in the **Settings** file and reloading the software from your **Start-up** disc(s).

Printrername: No printer

This message appears if the current printer is an external printer but the interface is missing or faulty. Switch off the power to your computer and printers, check that all the cables are firmly plugged in, and check that the interface hasn't worked loose.

e)

f) g)

Printer: No printer

This usually means LocoScript couldn't find the correct printer files on Drive M. Consult Appendix I of this booklet to see which .PRI, .DRV, and .#xx files you should be using. Return to the Disc Manager Screen and check which printer files you have in group 0 on your Start-up discs and on Drive M. If the files you need are on your Start-up discs but not on Drive M, then there probably wasn't enough space on Drive M for LocoScript to copy these files when you loaded.

You will also see this message if you are trying to use one of the standard Printer Drivers (ie, intended for use with a printer's built-in characters) as if it were a 'Download' Printer Driver eg, by renaming it 24PIN.PRI. Changing the name of a Printer Driver doesn't change how that Printer Driver can be used.

Another possibility is that you are using out-of-date versions of the printer files. To test a file to see if it is too old to use with the current LocoScript, move the Menu cursor to it in the Disc Manager Screen, press **[F5]**, then press **[ENTER]** to select Inspect document. If you see the message Incompatible LocoScript file, then the file is too old; you should replace it with a version supplied for use with LocoScript v2.12 or later, then update your Settings file. (Printer files on the discs supplied with this booklet are certainly new enough.)

Having checked that you are using the correct files, the next thing to check is the Settings file. From the Disc Manager Screen, press **[F5]** to display the Settings menu. Move the Menu cursor to For printer and press **[ENTER]**. Check that your printer's name is in the menu which appears. If four other printers are named, you have solved the problem: you cannot install more than four printers at once. Remove one of the others (see Part II of this booklet), then update the Settings file.

But assuming your printer name is listed, simply put the menu away by pressing **[CAN]**, then **[EXIT]** followed by **[ENTER]** to clear the Settings menu. If LocoScript offers to write your new Settings file to the disc in Drive A, put your Start-of-day disc in Drive A and then press **[ENTER]**; your Settings file is now up to date. (If you don't see such a message, your Settings file already contained details of your printer.)

Now you should make sure your printer is selected as the Current printer. Press **[F10]** to go into Printer Control State and make sure that the flashing printer name shows the name of the .PRI file you have installed for use with your printer. (Eg, if the printer file is 24PIN.PRI, the flashing message should show 24PIN.) If it doesn't, press **[F5]**, move the Menu cursor over the printer name and press **[E]**. Now press **[EXIT]** and the flashing name should show your printer's .PRI, and LocoScript will be able to print.

The message Printer: No Printer can also appear if the interface is missing or faulty. So if you are sure the printer files are present and correct, and the Settings file is up to date, you should check the interface. See the section opposite on testing the hardware for instructions how to do this.

- If you get the message Printer: No Printer every time you load LocoScript you should check that all the printer files are in group 0 of your Start-of-day disc (or, on a PCW8256/8512, one of your other Start-up discs). We also recommend you to set up your printer as the Standard printer, as described on page 6.

• If all else fails, test the hardware

If the remedies we've suggested don't solve the problem with your printer, and you can't get it to print *anything*, it's likely that the hardware is at fault. This could be the interface, the cable or the printer itself.

The first test is to check the copyright screen LocoScript displays when it is loading. If you have connected the printer via a detachable interface (and on the PCW8256/8512 you have no choice), this screen should include the message:

(with parallel/serial interface)

If this message is missing, it is a sure sign the interface is either faulty or not fitted correctly.

Even if the message is present, this does not necessarily mean the link is working correctly, and one way of testing it is to try printing some text in CP/M, the operating system supplied with your machine. The advantage of printing in CP/M is that it uses very simple commands to print text, making it easy to pinpoint a hardware fault.

(But this test is not foolproof when you have trouble downloading characters. This is because LQ24.DRV uses different parts of the printer's hardware from those used by CP/M and INSTALL.DRV. In this case it is possible that the CP/M test can be successful when there is still a problem with the hardware.)

The steps to take are as follows:

- 1 Load CP/M from a CP/M Start-up disc.
- 2 It's likely that your CP/M Start-up disc is set up to print on the built-in printer, so the next step is to redirect the output to the appropriate port of the interface. The utility that lets you do this is DEVICE.COM. (If you use a PCW8256/8512 this file is on the Systems/Utilities disc supplied with your machine. You should insert this disc before continuing. PCW9512 users have no need to change discs as this utility is supplied on the CP/M disc.)

The command to use depends on the port of the interface you're using. There are three commands: one for the parallel port and one for the serial port of an external interface, and one for the built-in parallel port on the PCW9512. We'll look at each of the commands in turn.

If you've attached the printer to the parallel port of an external interface, the command will be:

```
DEVICE LST:=CEN [RETURN]
```

Using the serial port requires a bit more effort. Unlike the parallel port, you have to set up CP/M to control the flow of information to the printer. In practice, this means ensuring that the serial settings such as the Baud rate, the parity and the protocol match the printer's settings. Firstly, you need the command:

```
DEVICE LST:=SIO [RETURN]
```

to direct the output to the serial port.

To set up the Baud rate, parity and protocol, you need to use the SETSIO utility. For example, the command:

```
SETSIO 9600 PARITY NONE XON ON 
sets the printer up with a Baud rate of 9600, no parity and Xon/Xoff protocol. (Before using this command, find out what the serial settings are on your printer from the printer's manual and then consult the manual supplied with your PCW for the appropriate options to use with this command.)
```

The third DEVICE command applies only to PCW9512 users. Unlike the 8000 machines, the PCW9512 has a built-in parallel port and the chances are that you've attached your printer to this port rather than using an external interface. If so, the command you need to use is:

```
DEVICE LST:=PAR 
3 Now you're ready to use BASIC to print some text. To load BASIC, put your CP/M Start-up disc in Drive A, and type:
```

```
BASIC 
The copyright messages for Mallard BASIC appear on the screen. To print some text, simply type:
```

```
LPRINT "The Quick Brown Fox" 
At this point the words The Quick Brown Fox should be printed. If, after a pause, the message CEN not ready - Retry. Ignore or Cancel is displayed at the bottom of the screen, the first thing is to ensure that the printer is on-line and that you have selected the correct port of the interface in the DEVICE command. If you are sure you have got these details correct and the printer still fails to respond to this command, there is a fault in the hardware - either the interface, the cable or the printer itself.
```

You'll find more about printing in CP/M in the manual supplied with the PCW. We don't offer technical support on CP/M so we can't help you if you get into difficulty using any of the commands.

Incompatible interfaces

When LocoScript 2 came out we became aware of some interfaces which didn't work correctly, in particular the SCA Mark 1 interface. The interface we recommend is the Amstrad CPS8256 interface. Other interfaces can be used but unless they're 100% compatible with the CPS8256, you may not be able to print documents correctly.

If your printer won't work with LocoScript, check that you're not using an SCA Mark 1 interface. SCA supplied a version of CP/M which worked with their interface so using the CP/M test described above could mislead you about the cause of the problem.

SCA haven't sold the Mark 1 interface for a long time, but if you are still using one, contact SCA Systems (0903 700288) who can supply you with an upgrade to the Mark 2 version.

Printer prints, but incorrectly

To sort out these problems, we'll consider the individual symptoms.

Wrong typeface (laser printers)

Assuming that LocoScript was set for the correct Character Set, then the likely explanation is that the font you wanted is a PS font but your document is set up for one of the fixed Character Pitches (or *vice versa*).

Laser printers respond to requests for particular Character Pitches, print styles (bold, italic) etc. by looking for a font with the necessary characteristics. So if you select a PS font but don't set the Character Pitch used in the document to PS, the laser printer will spot that it is being asked to print in a fixed pitch and change to a fixed pitch font to do this. This can sometimes be turned to your advantage (it's the only way LocoScript 2 can mix typefaces in one document) but if you aren't expecting it, it can be a bit alarming.

There's a more detailed explanation in the description of laser printers given in Appendix II.

Wrong emphasis

Check that your printer actually supports the print style that you have selected.

If you ask for print style that isn't supported, LocoScript will either ignore the instruction or make an appropriate substitution - for example double-strike for bold.

Printer prints very slowly when downloading

This is only a problem with a few printers - the only ones we have discovered are the Amstrad LQ3500 and LQ5000, the OKI Microline 390 and 391, and the Panasonic KX-P1124.

The Amstrad and OKI printers handle downloaded characters by printing each line in two passes, so printing is very slow. With underlined text, four passes are required! (The Panasonic runs slowly for a different reason.) Unfortunately, the slowness is beyond the control of the software so nothing can be done to speed things up.

If you own one of these printers and are concerned with the speed of output, we recommend that you sacrifice the full range of characters and do not download characters, but use the printer's built-in characters instead. This means you should re-install the printer, selecting the option for built-in characters (on a PCW8256/8512) or using INSTALL.DRV (on a PCW9512). For the .PRI file, use either LQ3500.PRI or (preferably) LQ3500X.PRI if you own an Amstrad, OKI390.PRI if you own an OKI, and LQ2500.PRI or KXP1124.PRI if you own a Panasonic.

Few characters wrong

- **One or two wrong characters**

If it's just the odd character that prints incorrectly – for example, £ in your document prints as # – the problem is almost certainly caused by using the wrong Character Set, and you simply need to use a Character Set file (.#xx file) which matches the range of characters on your printwheel or printer.

If you think you are using a particular .#xx file but it doesn't appear on Drive M, you may have forgotten to rename it to make its name consistent with the .PRI file you're using. The first part of the names of these files (up to the dot) *must* agree. For instance if your .PRI file is AP76.PRI and you need to use the .#xx file CHR96.#US, you must rename CHR96.#US and call it AP76.#US. You should then reload LocoScript and update your Settings file.

Alternatively, you may need to adapt the printer itself to match the .PRI file you are using, or use a different .PRI file to fit the way your printer is set up. For example, the switches on your printer may be set for IBM Proprinter emulation, but you may be using the file FX80.PRI, which is the file to use when the printer is in Epson emulation. Either change the switches on the printer so that it emulates an Epson FX80, or reinstall the printer using the file IBMPRO.PRI

Having the correct Character Set file will solve most problems. However, we can't provide .#xx files for all the different printers: we'd never be able to fit them on the discs! So we have produced a program called CHARKIT that lets you create your own Character Sets. As long as the printer is one we already support, CHARKIT will let you build a Character Set, specifically tailored to the characters on your printer. CHARKIT is now supplied in the Printer Support Pack.

- **Missing Characters**

Missing characters suggest your document contains characters that your printer cannot print. When this happens, LocoScript substitutes a blank space. So the first thing to do is to look in your printer's own manual to see that the printer can actually print the character which should be there.

If the character is available on your printer, then it may not be included in the Character Set file. (This is only likely with more unusual characters.) If the character is important to you, you can include it in your own Character Set file made with the CHARKIT program, now supplied in the Printer Support Pack.

Of course, missing characters can also be caused by using the wrong .PRI file or the wrong .#xx file altogether. You should make sure that you're using the right files by checking the list in Appendix I.

- **Extra characters**

Unwanted characters appearing at the top left hand corner of the page usually mean that you're using the wrong .PRI file. Check in Appendix I to see which file we recommend, then re-install the printer.

Unwanted characters at the ends of lines (typically Xs and Ps) suggest that the switches on the printer are set for the wrong printer mode (eg. IBM rather than Epson).

Your printer prints complete gibberish

- **On Daisy-wheel printers**

Distorted text usually means that you are using the wrong Character Set.

This is particularly likely to be the reason if you are using a proportionally spaced printwheel. Proportionally spaced printwheels have the same characters as their fixed pitch counterparts, but often on different petals, so using a Character Set for a fixed pitch wheel will scramble your text. For most printers, the solution is to use the CHARKIT program provided in the Printer Support Pack to produce a Character Set which describes where the characters appear on the PS printwheel.

- **When downloading characters**

This suggests that the printer is using its built-in characters rather than the downloaded characters. Typically, what you get is lots of exclamation marks with a few other random characters scattered among them. If you get this problem, press [F1] to go into Printer Control State, and then reset the printer by selecting Reset printer in the f1 menu. You can probably stop this recurring if you always ensure that the printer is switched on *before* you load LocoScript.

If resetting the printer doesn't cure the problem, the printer's option switches are probably set incorrectly. Many printers are preset at the factory to use the printer's internal characters. Read your printer's manual carefully to see how the option switches should be set for downloading. Obviously, choose ENABLE DOWNLOAD rather than DISABLE DOWNLOAD if this is an option. Also, if you can set the size of the printer's internal buffer, you should select the smallest possible value when downloading characters.

- **Using a serial interface**

If you are using a serial interface it could be that the baud rate, the parity etc. are set differently in LocoScript from the way they are set on the printer. This problem is cured with the following steps:

- a) Display the Disc Manager Screen, then press [F5] (to call up the Settings menu).
- b) Select For printer with the Menu cursor and press [ENTER]. From the list of printers which appears, tick yours, and press [ENTER] again to return to the Settings menu. The name of your printer will now be displayed below For printer.
- c) Select Printer defaults and press [ENTER].
- d) Select Printer options and press [ENTER].
- e) Check that the baud rate, parity, etc. shown in this menu in this menu agree with the way they are set on the printer.
Tick the correct options, and press [ENTER]. Now press [EXT] followed by [ENTER] to return to the Settings menu. Press [EXT] followed by [ENTER] again, and you will be given the option of writing the new Settings file to the disc in Drive A. Put your Start-of-day disc into the drive, and accept this option.
- f) Reload LocoScript by pressing [SHIFT], [EXTRA], and [EXT].
- g) Set your printer as the Current printer by pressing [F1], then [F5], and then selecting your printer from the menu.

Text wrongly positioned

- **Ends of lines missing**

If the text is cut short and you lose the end of every line, the most likely explanation is that you haven't told LocoScript the correct width of the printer you want to use. From LocoScript version 2.12 onwards, there is a Printer width setting - which you need to set to the length of the longest line of text your printer can print (measured in tenths of an inch).

The width setting is on the Printer options menu, in Printer Defaults in the f6 Settings menu. After changing the width in the f6 Settings, you need to save the new Settings file on your Start-of-day disc and then reload LocoScript.
- **No spaces between words**

This is a problem which sometimes occurs with daisy-wheel printers. It is usually caused by selecting PS with switches on the printer. If the printer's switch is set to PS, both LocoScript and the printer try to control the spacing. You should set the printer's switch to any pitch *except* PS so that the job of spacing the text is left entirely to LocoScript.
- **Printing outside the margins**

With some printers, you may find that the lines overflow the right hand margin and print inside the left hand margin.

Check that you've switched on your printer before your PCW. (If you forget to do this, you can always send a fresh resetting sequence to the printer by using the Reset printer option in the f1 Actions menu in Printer Control State.)

Alternatively, the problem can be caused by using the wrong .PRI file. Check which file you've installed and if necessary replace it with the correct file.

If this doesn't clear up the problem, the next thing to check is that you're not trying to use a feature that's available within LocoScript but is not supported on your printer. For example, trying to print in a Character pitch of 12 when the printer only supports 10 pitch means the printer may print outside the margins as it struggles to cope with the commands sent to it.
- **Double line spacing**

Another problem that affects the layout is when the text is printed in double line spacing, regardless of the single line spacing selected in your document.

This is a symptom of both LocoScript and the printer trying to control the line spacing. It occurs when the option switch on the printer for Carriage Return (CR) or Carriage Return/Line Feed (CR/LF) is set to CR/LF. Setting the option switch to CR should cure the problem.

Printer used to print, but now refuses

- **The printer printed properly to start with, but since you've reloaded LocoScript it refuses...**

There are three possible causes.

You may have copied all the correct printer files to Drive M when installing, but forgotten to copy them to one of your Start-up discs. Printer files need to be kept in group 0 on a Start-up disc so that they are automatically copied to Drive M (where LocoScript needs them) when you load the system. *Note:* There must also be enough room on Drive M for these files.

Alternatively, you may have updated your Settings file, but forgotten to save the new version on your Start-of-day disc. From the Disc Manager Screen, press [F6] to call up the Settings menu, then press [EXIT], then [ENTER] to put it away again. If you see a message offering to write your Settings file on the disc in Drive A, you have found the cause of your problem. Put your Start-of-day disc in Drive A and then accept this option.

Thirdly, you may previously have set LocoScript correctly for your printer, but because you didn't record your printer as the Standard printer, some other printer is now the Current printer. In this case, we recommend you to follow the instructions in Part I to make your printer the Standard printer.
- **The printer printed properly on several occasions but now refuses...**

Well, *something* must have changed, or LocoScript would still print as it used to! The first thing to check is that you haven't forgotten to set the printer on-line or even to switch it on at all. (It does happen!)

Other problems are characterised by the message No Printer when you go into Printer Control State by pressing [F7]. There are two forms of this message, and which you get will help you to diagnose the problem.

If No Printer has your printer's name before it (in other words if the message reads, for example, FX80: No Printer), check the connection between your PCW and your printer. Has the cable fallen out? Has the interface worked loose? If so, you should reconnect the link and *then reload LocoScript* to see if your printer now works.

If the No Printer message takes the form: Printer: No Printer, LocoScript couldn't find the correct printer files on Drive M. Perhaps you normally load LocoScript from more than one Start-up disc (a Drive B Start-up disc, for example) and forgot to put the other disc in the drive.

But assuming your discs have the same printer files that you've always been using, the most likely reason is that LocoScript couldn't find room on Drive M for the printer files. Have you switched to a bigger LocoSpell dictionary, for instance, which will take up a lot more room in memory? Checking the files in Drive M is the best way to see what is likely to be wrong.

Printer prints only one page (or one document)

If LocoScript prints only one page of your document, it is probably because it thinks there is no paper in the printer. Press **[F10]**, and if the message **Waiting for paper** appears, this confirms the diagnosis.

Make sure there is paper in the printer, then press **[F10]** if you haven't already done so. Now press **[F5]** and the printer will almost certainly resume printing.

If LocoScript prints one document and refuses to print another this could be because it hasn't completed the previous document. Press **[F10]** to go into Printer Control State and look at the printer status (next to the flashing printer name). This will give you a good idea about what LocoScript thinks the printer is currently doing. You can also press **[F7]** when in Printer Control State to get more information. If you want, you can select **Abandon printing** to free LocoScript to print again.

Appendix I:

Printers supported

The bulk of this Appendix is a list of all the printers that LocoScript is known to support, together with details of the files that you are recommended to use with each printer. The list is arranged in alphabetical order of printer manufacturer.

Different types of file

The files listed here are of two types:

- **Printer Driver files** – with names ending in **.PRI**.
You must have a suitable Printer Driver file before you can use an external printer.
 - **Character Set files** – with names ending in **.#xx**.
With dot-matrix and laser printers, these contain details of the characters available in a particular typeface. With a daisy-wheel printer, each Character Set file contains details of the characters available on a particular type of printwheel.
- In most cases, you only need a Character Set file if you have the typeface or printwheel it supports on your printer but you need at least one Character Set file to use a printer in Download mode (see page 2).

Different 'modes'

In some cases, setting the switches on a printer allows it to run in different 'modes'. In particular, some printers offer the choice of running the printer in a 'Standard' mode in which the printer's own characters are used or in 'Download' mode in which LocoScript downloads the characters to be printed. Where a printer can be used in different modes, this is shown in the MODE column of the following list.

In general, each mode requires a different set of files. For example, if you set switches to run your printer in 'Epson mode', you may need to use **FX80_NLQ.PRI**, whereas if you set the switches to run it in 'IBM mode', you may need to use **IBMGP.PRI**. Indeed, as far as LocoScript is concerned, each mode is effectively a different printer and you need to install the printer separately for each mode you wish to use.

The printer's own manual will tell you how to set the printer in one mode or another, while this list will tell you which files you need to use in each case.

If your printer isn't listed here

If your printer isn't listed here, phone us. It's possible that we've developed a driver for your printer since this book was printed, or that a driver for another printer will work perfectly well.

In the meantime, however, you could pick out a suitable basic .PRI from the eleven standard drivers supplied with most LocoScript products. Decide which is the best driver as follows:

If your printer is a dot-matrix printer, you will probably be able to drive it with LQ1500.PRI, FX80.PRI, or FX80_NLQ.PRI. Generally speaking, LQ1500.PRI is appropriate to 24-pin printers, whereas the FX80 drivers are appropriate to 9-pin printers, though this is not a rigid rule, and if the line spacing is very narrow (so all the lines are bunched at the top of the page) or very wide (so that each page spills over onto the next) you should try one of the other drivers.

If you have a daisy-wheel printer or a laser printer, we suggest that you try D630.PRI.

Your printer's own manual may offer help, too. If your printer is described as LQ-1500 compatible, use LQ1500.PRI. If it is described as FX-80 compatible or has an FX-80 emulation mode the Printer Driver to use is FX80_NLQ.PRI (if it has an NLQ option) or FX80.PRI (if it doesn't). If it is described as D-630 compatible or has a D-630 emulation mode, use D630.PRI.

On the other hand if none of these Drivers suits your printer, you need to use one of the 'Simple' .PRI files. The way you find out which is as follows:

Start by installing SIMPLEBS.PRI and see how well this works. The possible problems you may find are:

- a) Repeated characters where you specify double-strike or bold; underlines between characters rather than underneath them
 - b) All text double-spaced (Note: If your printer has an Auto CRLF option switch, you may be able to cure this problem simply by setting this switch)
 - c) Underlines replaced by some other character
- If you get problems a) and b), you should change to SIMPLEA.PRI
If you get problem a) only, you should change to SIMPLEBU.PRI
If you get problem b) only, you should change to TP1.PRI
If you get problem c) only, you should change to SIMPLEB.PRI
If you don't get any problems, stay with SIMPLEBS.PRI

Where to obtain the files from

Most of the recommended files are found only in the Printer Support Pack or on the old Printer Drivers Disc. The files used to support printers in Download mode are only found in the Printer Support Pack or on the old 24 Pin Printer Drivers Disc.

If you don't have the relevant disc, you have two options. You can either buy the Printer Support Pack and use a driver which gives full support to your printer; or, you can get partial support by using a suitable driver from among the eleven basic drivers supplied with most LocoScript products. To find which of these basic drivers is appropriate for your printer, follow the instructions for picking a suitable basic Printer Driver given in the section entitled *If your printer isn't listed here*.

Making sure you use up-to-date files

You must make sure you use a suitably up-to-date version of the .PRI file: when we issued LocoScript version 2.12 we changed the format of the files, and files in the old format won't work on a new system. If your .PRI file came from a Printer Drivers Disc, a 24-pin Printer Drivers Disc, or from any disc supplied with this booklet it is certainly in the new format. Any .PRI supplied for use with LocoScript v2.12 or later will be suitable. But other, older versions will not work.*

Once you have upgraded LocoScript to the latest version, you can easily test to see if a .PRI file is suitable. From the Disc Manager Screen, select it with the cursor. Now press [F5] followed by [ENTER], selecting the option to Inspect document. If the .PRI is not suitable you will see Incompatible LocoScript file.

Changes of name

Finally before the enormous list of printers, you may be confused to find that files we used to provide are no longer available. The reasons vary for each file:

- **NECP6X.PRI and OKI290X.PRI** (and corresponding Character Set files) Since these files are superior to the old NECP6.PRI and OKI290.PRI, the inferior files have been withdrawn, and NECP6X.PRI and OKI290X.PRI renamed as NECP6.PRI and OKI290.PRI.
- **DMP3000.#IB and LQ3500.#IB** These Character Set files are no longer necessary; they have been incorporated into the corresponding Printer Driver files DMP3000.PRI and LQ3500.PRI
- **GQ3500.#R1 and GQ3500.#R2** These files have been renamed GQ3500.#T0 and GQ3500.#T2
- **DMP.PRI** This file is identical to DMP3000.PRI

* There is a tiny chance that you may not have a suitable .PRI at all. This can only happen if
• you have neither the Printer Support Pack nor the old Printer Drivers Disc, and
• the only products you have bought for use with LocoScript v2.12 or later are LocoMail or LocoFile

If you don't have a suitable .PRI file, return your LocoScript 2 Master Disc to Locomotive Software, and we will replace it with a Master Disc with the up-to-date versions of the eleven basic printer files. (We will not return the original disc, so if you have stored any documents on it, you should make a copy of them before you send the disc to us.)

The printers

There follows a list of all the printers LocoScript is known to support, together with their .PRI files. There are some notes given about Character Sets, but more detailed information is given at the end of the main list.

MODEL	MODE	DRIVER	COMMENTS
Admate			
SP80LQ		<u>RX80A.PRI</u>	
Amstrad			
DMP 2000		DMP2000.PRI	
DMP 2160		<u>DMP2000.PRI</u>	
DMP 3000		DMP3000.PRI	
DMP 3160		DMP3000.PRI	
DMP 3250di		DMP3000.PRI	
DMP 4000		DMP3000.PRI	DMP2000/3000/4000 series printers supported on the AMSTRAD 9512 master disc by the DMP driver.
FX9600T			
LQ 3500	Download	<u>EX9600.PRI</u>	
	Standard	‡ 24LQ3500.PRI	See note (a), immediately below.
	Extended	‡ LQ3500.PRI	
LQ 3500di			
	Download	‡ 24LQ3500.PRI	See note (a), immediately below.
	Standard	‡ LQ3500.PRI	
	Extended	‡ LQ3500X.PRI	
LQ 5000di			
	Download	‡ 24LQ3500.PRI	See note (a), immediately below.
	Standard	‡ LQ3500.PRI	
	Extended	‡ LQ3500X.PRI	

(a) In this mode the printer prints rather slowly, as each line takes two passes.

Anadex

DP-500 † SIMPLEBU.PRI

Apricot

Writer 21 † FX80_NLQ.PRI

Binder

1550 CI8510.PRI
8510 CI8510.PRI

Brother Typewriters

The following Brother typewriters may be used with LocoScript 2 but require an interface to be fitted.

AX-20, AX-25, AX-30, AX-35
CE-50, CE-51, CE-60, CE-61, CE-70, CE-500, CE-550, CE-650,
EM-80, EM-85, EM-100, EM-200, EM-250, EM-501, EM-511, EM-721, EM-811, EM-1000
Executron 65

The driver to use depends upon the interface fitted, as follows:

IF-100 ‡ D630.PRI
IF-20 † SIMPLEBS.PRI
IF-300 ‡ D630.PRI
IF-50 IF50.PRI
IF-60AX IF60AX.PRI Used with AX-series.
IF-60CE IF60CE.PRI Used with CE-series.

Key

† This driver is provided as standard on LocoScript Master discs supplied by Locomotive Software.

‡ This driver enables LocoScript to accept downloaded characters; it must be used in conjunction with LQ24.DRV. See the notes about 24-pin Download mode among the Character Set details at the end of this Appendix.

①, ②, ③ etc. refer to specific notes at the end of the Appendix.

Where a driver (or any note about fonts supported) is underlined, it is new or significantly changed on the Printer Support Pack.

MODEL MODE DRIVER COMMENTS

Brother Printers

EP-44 HP LaserJet † SIMPLEBS.PRI
 HL-4 Epson † HL8.PRI
 Diabolo † FX80.PRI
 † D630.PRI
 HL-8 HP LaserJet † HL8.PRI
 Epson † FX80.PRI
 Diabolo † D630.PRI
 HP LaserJet † HL8.PRI
 Extra set files: HL8.#H0 HL8.#T0
 Supports Anelia PS and fixed pitch fonts.

HL-8E HP LaserJet † HL8.PRI
 Epson † FX80.PRI
 Diabolo † D630.PRI
 † SIMPLEBS.PRI
 HR-1 † D630.PRI
 HR-10 † D630.PRI
 HR-15 † D630.PRI
 HR-15XL † D630.PRI
 HR-20 † D630.PRI
 HR-25 † D630.PRI
 HR-25XL † D630.PRI
 HR-35 † D630.PRI
 HR-40 † D630.PRI
 M-1009 RX80A.PRI
 M-1109 † FX80_NLQ.PRI
 IBM † IBMGP.PRI
 Epson † FX80_NLQ.PRI
 IBM † IBMPRO.PRI
 Download † 24LQ2500.PRI
 Extra set files: LQ2500.#SS

M-1409 Epson † FX80_NLQ.PRI
 IBM † IBMGP.PRI
 M-1509 Epson † FX80_NLQ.PRI
 IBM † IBMGP.PRI
 M-1709 IBM M1818.PRI
 IBM † IBMPRO.PRI
 Download † 24LQ2500.PRI
 LQ1000.PRI
 M1818.PRI
 Supports built-in Prestige font.
 Extra set file: M1818.#QR (Quadro)

M-1818 † 24LQ2500.PRI
 Download † LQ2500.PRI
 IBM † IBMX24.PRI
 M1818.PRI
 Supports built-in Prestige font.
 Extra set file: M1818.#QR (Quadro)

M-1918 † 24LQ2500.PRI
 Download † LQ2500.PRI
 IBM † IBMX24.PRI
 M-1924L † 24LQ2500.PRI
 Download † LQ2500.PRI
 IBM † IBMX24.PRI
 Supports built-in Prestige font.
 Extra set file: M1818.#QR (Quadro)

Brother Printers (continued)

TWINRITER 5 DP † FX80_NLQ.PRI
 WP † D630.PRI
 2024L † 24LQ1500.PRI
 Download † LQ1500.PRI
 DP † D630.PRI
 WP † LQ1500X.PRI
 Extended
 Printer has no italics.

Bull
 VP-480 IBM XL BJ130.PRI
 NEC P7 NECP6.PRI

Busicom
 NX-90 † BUSICOM.PRI
 Extra set file: CHR96.#US
C.Jtoth
 A10-30 † QUME.PRI
 C210 † FX80_NLQ.PRI
 C310 XP † FX80_NLQ.PRI
 C315 XP † FX80_NLQ.PRI
 C310 P/R † CI8510.PRI
 C315 P/R † CI8510.PRI
 C715 F † 24LQ1500.PRI
 Download † LQ1500.PRI
 Standard † QUME.PRI
 15 pitch not supported.

C715 Q † IBMGP.PRI
 CI-3500 † IBM D630.PRI
 D10-40 † D630.PRI
 F10-40 † QUME.PRI
 F10-55 † QUME.PRI
 FP 1500-25 † QUME.PRI
 LIPS 10 † FX80.PRI
 Epson Diabolo
 Riteman F+ † D630.PRI
 DMP2000.PRI
 Super F+ † FX80_NLQ.PRI
 TPX-80 † FX80_NLQ.PRI
 1550S/SC+NLQ † CI8510.PRI
 8510S/SC+NLQ † CI8510.PRI

Must have IBM PC interface cartridge.
 Must have Diablo 630 interface cartridge.

MODEL MODE DRIVER COMMENTS

Canon

A-60/F	Mode 1 Mode 2	† FX80_NLQ.PRI A60F.PRI IBMPRO.PRI	Uses 'NLQ' for high quality. Uses 'NLQ+' for high quality.	HQP-40	Download Standard	†① 24HQP40.PRI HQP40.PRI	HQP40.PRI supports the built-in Courier font. Extra set file: <u>HQP40.#SC</u> . (Script)
A-60/G		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.	HQP-45	Download Standard	†① 24HQP40.PRI HQP40.PRI	HQP40.PRI supports the built-in Courier font. Extra set file: <u>HQP40.#SC</u> . (Script)
AP-110		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.	LSP-10		† FX80_NLQ.PRI	
AP-160		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.	LSP-100		FX800.PRI	
AP-250		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.	MSP-10E		FX80_NLQ.PRI	
AP-360		② AP77.PRI	Printer needs AP77 interface. Extra set file: CHR96.#US	MSP-15E		FX80_NLQ.PRI	
AP-400		② AP76.PRI	Printer needs AP92 interface. Extra set file: CHR96.#US	MSP-20		FX80_NLQ.PRI	
AP-510		② AP76.PRI	Printer needs AP76 interface. Extra set file: CHR96.#US	MSP-25		FX80_NLQ.PRI	
AP-600		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.	Overture 106	HP LaserJet	HPLASER.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
AP-610		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.			FX80.PRI	
AP-700		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.			D630.PRI	
AP-800		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.			IBMPRO.PRI	
BJ-10E		†② D630.PRI	Printer needs AP-IF03/AP-IF43 interface.			FX80.PRI	
BJ-130		BJ130E.PRI	BJ130E.PRI has support for Courier built in.			D630.PRI	
BJ-130E		BJ130E.PRI	BJ130E.PRI has support for Courier built in. Extra set file: <u>BJ130E.#LG</u> (Letter Gothic). See note (a) immediately below.			IBMPRO.PRI	

LBP-4	Standard	LBP8.PRI	BJ130E.PRI has support for Courier built in. Extra set file: <u>BJ130E.#LG</u> (Letter Gothic). See note (a) immediately below.	Premiere 35	Download	†② D630.PRI	
LBP-8	Diablo	†② D630.PRI		Prodot 24	Download Standard	†① 24PD24.PRI	Extra set file: LQ2500.#SS
LBP-8II	Diablo	†② D630.PRI				LQ2500.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
LBP-8III	Standard	LBP8.PRI	See note (a) immediately below.	Prolaser 12	HP LaserJet	HPLASER.PRI	In Download mode this printer runs at half speed.
	Diablo	†② D630.PRI	See note (a) immediately below.	Swift 24	Download	†① 24LQ2500.PRI	Extra set file: LQ2500.#SS

(a) LBP8.PRI supports the built-in Courier 12pt typeface. The extra Character Set file LBP8.#C8 supports Courier 8pt.

PJ-1080A		PW1080.PRI	Colour features not supported.			LQ2500.PRI	Extra set file: LQ2500.#CO
PW-1080A		PW1080.PRI				FX800.PRI	Extra set files: FX800.#SS
Typestar 7		† SIMPLEBS.PRI				IBMPRO.PRI	

Centronics

GLP		†① FX80_NLQ.PRI	Use FX80.#IB set file.	CosmoWriter			
H80		IBMGP.PRI		4000		†② D630.PRI	Similar to Micro Peripherals MP26.
H156		IBMGP.PRI		Daisy			
PP-8	HP LaserJet	HPLASER.PRI	Requires HP interface module.	M45-Q	Diablo	†② D630.PRI	
	Epson	† FX80.PRI		M2001	Qume	② QUME.PRI	
	IBM	IBMPRO.PRI		M3001		IBMGP.PRI	
	Diablo ECS	†②③D630.PRI	Extra set files: CHR96.#US D630.#EI D630.#EM D630.#ES D630.#ET	M7001	Epson	† LQ1500.PRI	
					Diablo	†② D630.PRI	
					HP LaserJet	HPLASER.PRI	
					Epson	† FX80.PRI	
					Diablo	†② D630.PRI	
					Epson	† LQ1500.PRI	
					Diablo	†② D630.PRI	

MODEL MODE DRIVER COMMENTS

Epson (continued)

FX-80	†	FX80.PRI		
FX-85	†	FX80_NLQ.PRI		US version of FX-800. Extra set file: <u>FX800.#SS</u>
FX-86E	Ⓢ	FX800.PRI		Wide version of FX-80. Wide version of FX-85.
FX-100	†	FX80.PRI		US version of FX-105.
FX-105	†	FX80_NLQ.PRI		US version of FX-1000. Extra set file: <u>FX800.#SS</u>
FX-185	†	FX80_NLQ.PRI		Extra set file: <u>FX800.#SS</u>
FX-286E	Ⓢ	FX800.PRI		Wide version of FX-800. Wide version of FX-850. Extra set file: <u>FX800.#SS</u>
FX-800	Ⓢ	FX800.PRI		See note (a) immediately below.
FX-850	Ⓢ	FX800.PRI		Requires #5691 emulation card.
FX-1000	Ⓢ	FX800.PRI		Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
FX-1050	Ⓢ	FX800.PRI		Note that scalable fonts are not supported.
GQ-3500		Page Printer HP LaserJet	Ⓢ	See note (a) immediately below. Requires #5691 emulation card. Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
GQ-5000		Page Printer	Ⓢ	Note that scalable fonts are not supported.

† See note (a) immediately below.
 † See also note (a) immediately below.
 † Extra set files: HPLASERF.#T8
HPLASERF.#H4
 † Printer needs min 1.0M memory.
 † Extra set files: HPLASERF.#T8
HPLASERF.#H4
 † Page Printer mode:
 † GQ3500.#T2 (Times 12pt)
 † GQ3500.#T0 (Times 10pt)

(a) Extra set files for GQ-3500 and 5000 in Page Printer mode:
 GQ3500.#T0 (Times 10pt)
 GQ3500.#T2 (Times 12pt)

These are only useful when the printer is fitted with the 5403 (portrait) or 5405 (landscape) font cards.

GX-80		GX80.PRI		
HI-80		FX80A.PRI		
IX-80		FX80.PRI		
LQ-400		† 24LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
LQ-500		Ⓢ LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
LQ-550		† 24LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
LQ-800		Ⓢ LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
LQ-850		LQ1000.PRI		
LQ-860		† 24LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
		Ⓢ LQ2500.PRI		Colour options not supported.
		† 24LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>
		Ⓢ LQ2500.PRI		Extra set file: <u>LQ2500.#SS</u>

MODEL MODE DRIVER COMMENTS

Dataproducts

DP20		† 2 D630.PRI		
LZR 1230		HPLASER.PRI		
9030	Epson IBM	FX800.PRI IBMPRO.PRI		Extra set file: <u>FX800.#SS</u>
9034	Download Standard	† 24LQ2500.PRI LQ1000.PRI		
9040	Epson IBM	FX800.PRI IBMPRO.PRI		Extra set file: <u>FX800.#SS</u>
9044	Download Standard	† 24LQ2500.PRI LQ1000.PRI		
Diablo				
630-API		† 2 D630.PRI		
630-SPI		† 2 D630.PRI		
Diconix				
150		DIC150.PRI		
150 Plus		DIC150.PRI		
300	Epson IBM	DIC150.PRI IBMPRO.PRI		
300w	Epson IBM	DIC150.PRI IBMPRO.PRI		
Dyneer				
DW-12		† 2 D630.PRI		
DW-16		Ⓢ D1610.PRI		Extra set file: <u>CHR96.#US</u>
DW-36		† 2 D630.PRI		
Epson				
DX-100		† 2 D630.PRI		
EPL-7100	Page Printer	GQ5000.PRI		Note that scalable fonts are not supported. Extra set files: <u>GQ3500.#T0</u> <u>GQ3500.#T2</u> (These are only useful when the printer is fitted with the 5403 (portrait) or 5405 (landscape) font cards.) Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u> Printer needs min 1.0M memory. Extra set file: <u>FX800.#SS</u> Wide version of EX-800. Extra set file: <u>EX800.#SS</u>
EX-800	LQ Download	† 24GQ5000.PRI		
EX-1000		Ⓢ FX800.PRI		
		Ⓢ FX800.PRI		

MODEL MODE DRIVER COMMENTS

MODEL	MODE	DRIVER	COMMENTS
Epson (continued)			
LQ-1000	Download Standard	†① 24LQ2500.PRI <u>LQ1000.PRI</u>	Wide version of LQ-800.
LQ-1050	Download Standard	†① 24LQ2500.PRI ⑥ LQ2500.PRI	Wide version of LQ-850.
LQ-1060	Download Standard	†① 24LQ2500.PRI ⑥ LQ2500.PRI	Extra set file: LQ2500.#SS Wide version of LQ-860.
LQ-1500	Download Standard Download Extended Download Standard	†① 24LQ2500.PRI ⑥ LQ2500.PRI †① 24LQ1500.PRI † LQ1500.PRI † LQ1500X.PRI †① 24LQ2500.PRI ⑥ LQ2500.PRI	Extra set file: LQ2500.#SS
LQ-2500	Download Standard	†① 24LQ2550.PRI ⑥ LQ2500.PRI	Extra set files: LQ2500.#SS LQ2500.#CO LQ2500.#PG LQ2500.#SC
LX-80		<u>LX80.PRI</u>	
LX-86		<u>LX86.PRI</u>	
LX-400		⑦ LX800.PRI	Extra set file: LX800.#SS
LX-800		⑦ LX800.PRI	Extra set file: LX800.#SS
LX-850		⑦ LX800.PRI	Extra set file: LX800.#SS
MX-80		MX80.PRI	
MX-100		MX80.PRI	Wide version of MX-80.
Extra set file for MX-80/MX-100: MX80.#17 (Standard 17). This selects 17 pitch on the MX-80 and MX-100, which do not allow the mixing of separate pitches on a line (which means that LocoScript will not allow them to be mixed within a document). The MX80.PRI file itself supports 10 pitch.			
MX80 TypeIII			
RX-80		<u>RX80.PRI</u>	
RX-100		<u>RX80.PRI</u>	
SQ-850	Download Standard	†① 24LQ2550.PRI ⑥ LQ2500.PRI	Wide version of RX-80.
SQ-2000	Download Standard Extended Download Standard	†① 24LQ1500.PRI † LQ1500.PRI LQ1500X.PRI †① 24LQ2500.PRI ⑥ LQ2500.PRI	Extra set files: LQ2500.#SS LQ2500.#CO LQ2500.#PG LQ2500.#SC <u>LQ2500.#OA LQ2500.#OB</u>
SQ-2500	Download Standard	†① 24LQ2550.PRI ⑥ LQ2500.PRI	Extra set files: LQ2500.#SS LQ2500.#CO LQ2500.#PG LQ2500.#SC <u>LQ2500.#OA LQ2500.#OB</u>

Facit

B3150	Epson IBM	+ FX80_NLQ.PRI IBMPRO.PRI	
B3350	Epson IBM	+ FX80_NLQ.PRI IBMPRO.PRI	
B3450	Epson IBM Diablo	⑥ LQ2500.PRI IBMPRO.PRI †② D630.PRI HPLASER.PRI	Extra set file: LQ2500.#SS Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
P6060			
4512B		② IBMGP.PRI	
4565		② QUME.PRI	
7140		+ D630.PRI	

Fujitsu

DL2400	Standard	+ LQ1500.PRI	
DX2100	Epson IBM	+ FX80_NLQ.PRI IBMPRO.PRI	LocoScript does not support 15 pitch.
DX2200	Epson IBM	+ FX80_NLQ.PRI IBMPRO.PRI †② D630.PRI	LocoScript does not support 15 pitch.
SP830			

Gakken

2000		② GAKKEN.PRI	Extra set file: CHR96.#US
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Gestetner

GLX600		HPLASER.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
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Hermes

H.18		HERMES.PRI	
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Hewlett-Packard

DeskJet		DESKJET.PRI	Need extra set files and Pitch PS selected in document to use PS fonts.
Extra set files:			
		<u>DESKJET.#T0</u> (Times 10pt)	for use with the 'D' cartridge.
		<u>DESKJET.#T2</u> (Times 12pt)	for use with the 'E' cartridge.
		<u>DESKJET.#H0</u> (Helv 10pt)	for use with the 'G' cartridge.
		<u>DESKJET.#H2</u> (Helv 12pt)	for use with the 'H' cartridge.
DeskJet Plus		DESKJET.PRI	Need extra set files and Pitch PS selected in document to use PS fonts.
Extra set files:			
		<u>DESKJET.#T0</u> (Times 10pt)	<u>DESKJETR.#T2</u> (Times 12pt)
		<u>DESKJET.#H0</u> (Helv 10pt)	<u>DESKJETR.#H2</u> (Helv 12pt)

The DESKJETR files are for use with the 'R' cartridge and DESKJETT files for use with the 'T' cartridge respectively.

MODEL MODE DRIVER COMMENTS

Hewlett-Packard (continued)

MODEL	MODE	DRIVER	COMMENTS
DeskJet 500		DESKJET.PRI	Extra set files: <u>DESKJETR.#T0</u> <u>DESKJETR.#T2</u> <u>DESKJETR.#H0</u> <u>DESKJETR.#H2</u> Need <u>DESKJETR.#T2</u> set file and Pitch PS selected in document to use internal CG Times PS font.
LaserJet		HPLASER.PRI	See note (a) immediately below.
LaserJet II		HPLASER.PRI	See note (a) immediately below.
LaserJet IID		HPLASER.PRI	See note (a) immediately below.
LaserJet IIP		HPLASER.PRI	See note (a) immediately below.
LaserJet III		HPLASER.PRI	See note (a) immediately below.
LaserJet IIID		HPLASER.PRI	Scalable fonts are not supported.
LaserJet Plus		HPLASER.PRI	See note (a) immediately below.
LaserJet 500+		HPLASER.PRI	See note (a) immediately below.
LaserJet 2000		HPLASER.PRI	See note (a) immediately below.

(a) Extra set files: HPLASER.#T8 HPLASER.#H4

MODEL	MODE	DRIVER	COMMENTS
PaintJet		<u>PAINTJET.PRI</u>	
QuietJet		DESKJET.PRI	Printer must be set in HP mode.
QuietJet Plus		DESKJET.PRI	Wide version of QuietJet.
ThinkJet		+ SIMPLEBU.PRI	

Honeywell

4/20		+ FX80_NLQ.PRI	Use FX80.#IB set file.
4/21		+ FX80_NLQ.PRI	Use FX80.#IB set file.

IBM

Graph Print LaserPrinter 4019		IBMGP.PRI	IBM code no. 5152.
PPDS		IBMX24.PRI	
HP LaserJet		HPLASER.PRI	Extra set files: <u>HPLASER.#T8</u> <u>HPLASER.#H4</u> <u>IBMX24.PRI</u>
Proprinter X24		IBMPRO.PRI	Wide version of Proprinter.
Proprinter XL		<u>IBMX24.PRI</u>	Wide version of X24.
Proprinter XL24		IBMPRO.PRI	
Proprinter		IBMPRO.PRI	
Quiet Writer 3		IBMOP.PRI	<u>IBMX24.PRI</u> IBM code no. 5202.
Quiet Printer		IBMWHL.PRI	IBM code no. 5201.
Wheelprinter		+ SIMPLEBS.PRI	IBM code no. 5216.
6746		+ SIMPLEBS.PRI	Turn off auto-LF.
6747		+ SIMPLEBS.PRI	Turn off auto-LF.

Integrex

Colourjet 132		<u>INT132.PRI</u>	Colour options are not supported.
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(a) Fixed pitch fonts and Times 10pt PS are the only ones supported by KYOCERA.PRI.

Juki

2200	Standard	JUKI2200.PRI	Use with parallel interface.
	Serial	J2200S.PRI	Use with serial interface.
Extra set files:			
	JUKI2200.#10 (Standard 10)		JUKI2200.#15 (Standard 15)
	J2200S.#10 (Standard 10)		J2200S.#15 (Standard 15)
These select 10 and 15 pitch on the Juki 2200 typewriter, which do not allow the mixing of separate pitches on a line (which means that LocoScript will not allow them to be mixed within a document). The JUKI2200.PRI and J2200S.PRI files support 12 pitch.			
5510		+ FX80_NLQ.PRI	
5520		+ FX80_NLQ.PRI	
6000		JUKI6000.PRI	
6100		JUKI6100.PRI	Uses 100 petal wheel. Set option switches to US Character Set. Extra set file: JUKI6100.#02 (TA Group 2 wheel).
6200		+ ² D630.PRI	
6300		+ ² D630.PRI	
6500		+ ² D630.PRI	
7100	Download	+ ¹ 24LQ2500.PRI	
	ESC/P	JUKI7100.PRI	
	Diablo	+ ² D630.PRI	

Kaga

KP-810		PW1080.PRI	
KP-815		+ FX80_NLQ.PRI	
KP-915		+ FX80_NLQ.PRI	

Kyocera

F-1000	HP LaserJet	<u>KYOCERA.PRI</u>	See note (a) immediately below.
	Diablo	+ ² D630.PRI	
	Qume	+ ² QUME.PRI	
	NEC	NEC3550.PRI	
	IBM	IBMGP.PRI	
	Epson	+ FX80.PRI	
F-1010	HP LaserJet	<u>KYOCERA.PRI</u>	See note (a) immediately below.
	Diablo	+ ² D630.PRI	
	Qume	+ ² QUME.PRI	
	NEC	NEC3550.PRI	
	IBM	IBMGP.PRI	
	Epson	+ FX80.PRI	
F-2010	HP LaserJet	<u>KYOCERA.PRI</u>	See note (a) immediately below.
	Diablo	+ ² D630.PRI	
	Qume	+ ² QUME.PRI	
	NEC	NEC3550.PRI	
	IBM	IBMGP.PRI	
	Epson	+ FX80.PRI	

MODEL	MODE	DRIVER	COMMENTS	MODEL	MODE	DRIVER	COMMENTS
Logitech							
FT5001		FT5001.PRI		NEC			Updated version of P2200, not to be confused with P2 series.
FT7000		FT7000.PRI		P2 Plus			Extra set files: see <i>Note</i> below.
Mannesmann Tally							
MT80+		FX80.PRI	Does not support italics.		Download	† 24P2200.PRI	
MT81	Epson	DMP2000.PRI			Standard	NECP6.PRI	
	IBM	IBMPRO.PRI		P2 series		IBMPRO.PRI	
MT85	Epson	FX80_NLQ.PRI		P3 series		IBMPRO.PRI	
	IBM	IBMGP.PRI		P5	Download	† 24NECP6.PRI	
MT86	Epson	FX80_NLQ.PRI			Standard	NECP5.PRI	
	IBM	IBMGP.PRI		P6	Download	† 24NECP6.PRI	Extra set files: see <i>Note</i> below.
MT91	IBM XL	BJ130.PRI		P6 Plus	Download	NECP6.PRI	
	NEC P7	NECP6.PRI			Standard	† 24NECP6.PRI	Extra set files: see <i>Note</i> below.
MT110		SIMPLEBU.PRI	Printer has non-standard pitches.	P7	Download	† 24NECP6.PRI	Quick Gothic not supported. Extra set files: see <i>Note</i> below.
MT180		SIMPLEBU.PRI	Printer has non-standard pitches.		Standard	NECP6.PRI	
MT460		FX80.PRI	Printer must be in 'EPSON' emulation.	P7 Plus	Download	† 24NECP6.PRI	Extra set files: see <i>Note</i> below.
MT490		FX80.PRI	Printer must be in 'EPSON' emulation.		Standard	NECP6.PRI	
MT905	HP LaserJet	HPLASER	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>	P9XL	Download	† 24NECP6.PRI	Extra set files: see <i>Note</i> below.
					Standard	NECP6.PRI	
	Epson	FX80.PRI		P20	Download	† 24NECP6.PRI	Quick Gothic not supported. Extra set files: see <i>Note</i> below.
	Diablo	D630.PRI			Standard	NECP6.PRI	
MT910	HP LaserJet	HPLASER		P30	Download	† 24NECP6.PRI	Quick Gothic not supported. Extra set files: see <i>Note</i> below.
	Epson	FX80.PRI			Standard	NECP6.PRI	
	Diablo	D630.PRI		P60	Download	† 24NECP6.PRI	Quick Gothic not supported. Extra set files: see <i>Note</i> below.
					Standard	NECP6.PRI	
Memotech							
DMX80		FX80.PRI		P70	Download	† 24NECP6.PRI	Quick Gothic not supported. Extra set files: see <i>Note</i> below.
Merlin							
MP1881		D1610.PRI	Extra set file: CHR96.#US	P2200	Download	† 24P2200.PRI	Extra set files: see <i>Note</i> below.
Micro Peripherals							
MP26		D630.PRI			Standard	NECP6.PRI	
MP40		D630.PRI			Standard	NECP6.PRI	
MP135		FX80.PRI			Standard	NECP6.PRI	
MP165		FX80.PRI	'High density PS' not supported.		Standard	NECP6.PRI	
MP200		FX80.PRI			Standard	NECP6.PRI	
MP201		FX80.PRI			Standard	NECP6.PRI	
MP480		DMP3000.PRI	Printer supports PS in draft only.		Standard	NECP6.PRI	
MP700		DMP3000.PRI	Printer supports PS in draft only.		Standard	NECP6.PRI	

Note: Extra set files for NEC P2200/P2 plus/P6 plus/P7 plus/P20/P30/P60/P70/P9XL (Standard mode):

- NECP6.#HL (Helvetie)
- NECP6.#OC (OCR-B)
- NECP6.#SF (Super Focus)

NECP6.PRI supports the built-in Courier/Bold PS fonts. The NEC P6 and P7 printers are earlier models, which do not have access to the above fonts. NECP6.PRI is thus the only file needed for those.

The NEC P2200 has the following available as standard: Courier/Bold PS, ITC Souvenir, Super Focus and OCR-B. Helvetie and Prestige are available as options.

The P2 Plus, P6 Plus, P7 Plus, P20, P30, P60, P70, and P9XL have the following available as standard: Courier/Bold PS, ITC Souvenir, Prestige, Times and Helvetie.

MODEL	MODE	DRIVER	COMMENTS	MODEL	MODE	DRIVER	COMMENTS
NEC (continued)							
350		NEC3550.PRI		Microline 320	Microline IBM	<u>OKI190M.PRI</u> <u>IBMPRO.PRI</u>	
360	Diablo NEC	+ ² D630.PRI NEC3530.PRI NEC3530.PRI NEC3530.PRI NEC3530.PRI NEC3530.PRI + ² D630.PRI NEC3530.PRI NEC3550.PRI NEC3530.PRI + ² D630.PRI NEC3530.PRI NEC3550.PRI	Serial version of 3530. Serial version of 8830.	Microline 321	Microline IBM	<u>OKI190M.PRI</u> <u>IBMPRO.PRI</u>	
2000R				Microline 390	Download	+ ¹ 24LQ1500.PRI <u>OKI390.PRI</u>	Printer must be in EPSON emulation. See note (a) immediately below.
2010				Microline 391	Download	+ ¹ 24LQ1500.PRI <u>OKI390.PRI</u>	Printer must be in EPSON emulation. See note (a) immediately below.
2030				(a) In this mode the printer prints rather slowly, as it takes two passes to cover each line of text.			
3510				Olivetti			
3515				DM 100		+ FX80.PRI	
3530				DM 100-S		+ FX80_NLQ.PRI	
3550				DM 105-S		+ FX80_NLQ.PRI	
8810				ET 109		+ ² D630.PRI	
8815				ET 121		+ SIMPLEBS.PRI	
8830				PG 306		HPLASER.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>
8850				Praxis 45D		+ SIMPLEBS.PRI	
Newbury Labs							
8820							
Oki							
Laser 400		HPLASER.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>	Carrera		CARRERA.PRI	
Laser 800		HPLASER.PRI	Extra set files: <u>HPLASERF.#T8</u> <u>HPLASERF.#H4</u>	ESW 103		ESW103.PRI	
Laserline 6		HPLASER.PRI	Extra set file: <u>HPLASERF.#T8</u> - usable when the Times P&L' cartridge is fitted.	ESW 1000C		+ ² D630.PRI	Mode to use depends on EPROM fitted to printer.
Microline 80		+ SIMPLEBU.PRI		ESW 3000		+ ² D630.PRI	
Microline 82A		OKI82A.PRI	Extra set file: OKI82A.#17 (Standard 17)	Olympia		ESW3000.PRI	
Microline 83A		OKI82A.PRI	Extra set file: OKI82A.#17 (Standard 17)	Quine		+ ² QUME.PRI	
Microline 84A		OKI82A.PRI	Extra set file: OKI82A.#17 (Standard 17)	Diablo		+ ² D630.PRI	
The extra set file selects 17-pitch on the OKI 82A and compatible printers, which do not allow the mixing of separate pitches on a line (which means LocoScript will not allow them to be mixed within a document). The OKI82A.PRI file itself supports 10 pitch.				Mastertype I		+ FX80_NLQ.PRI	
Microline 180	Microline IBM	<u>OKI180.PRI</u> <u>IBMPRO.PRI</u>		NP80	IBM	<u>IBMPRO.PRI</u>	Wide version of NP80.
Microline 190	Microline IBM	<u>OKI190M.PRI</u> <u>OKI190L.PRI</u> <u>OKI190M.PRI</u> <u>OKI190L.PRI</u> <u>OKI190M.PRI</u> <u>OKI190L.PRI</u> <u>OKI190M.PRI</u> <u>OKI190L.PRI</u> <u>OKI190M.PRI</u> <u>OKI190L.PRI</u>		NP136		+ FX80_NLQ.PRI <u>IBMPRO.PRI</u>	
Microline 192	Microline IBM	<u>OKI190L.PRI</u>		RO		JUKI6100.PRI	Extra set file: JUKI6100.#02
Microline 193	Microline IBM	<u>OKI190M.PRI</u>		Panasonic			
Microline 194	Microline IBM	<u>OKI190L.PRI</u>		KX-E400		+ SIMPLEBS.PRI	Printer needs KX-E72 interface
Microline 290		<u>OKI190L.PRI</u>		KX-E500		+ SIMPLEBS.PRI	Printer needs KX-E72 interface
Microline 292		<u>OKI290.PRI</u>		KX-E508		+ SIMPLEBS.PRI	Printer needs KX-E72 interface
Microline 293		<u>OKI290.PRI</u>		KX-E8000		+ SIMPLEBS.PRI	
Microline 294		<u>OKI290.PRI</u>		KX-P1080		KXP1000.PRI	
				KX-P1081		<u>KXP1081.PRI</u>	

MODEL MODE DRIVER COMMENTS

Panasonic (continued)

KX-P1082	Epson IBM	KXP1000.PRI IBMPRO.PRI	
KX-P1083	Epson IBM	KXP1000.PRI IBMPRO.PRI	
KX-P1123	Download	#1 24LQ2500.PRI	In this mode the printer runs very slowly, and needs a KX-P43 buffer. Extra set files: LQ2500.#SS LQ2500.#CO LQ2500.#PG LQ2500.#SC Extra set files: KXPIBM24.#SS KXPIBM24.#CO KXPIBM24.#PG KXPIBM24.#SC In this mode the printer runs at half speed, and needs a KX-P43 buffer. Extra set files: See under KX-P1624. Extra set files: See under KX-P1624. Extra set files: See under KX-P1695. Printer needs KX-P43 buffer.
	Epson	LQ2500.PRI	
	IBM	KXPI1124.PRI	
KX-P1124	Download	#1 24LQ2500.PRI	
	Epson IBM	# LQ2500.PRI KXPI1124.PRI	
KX-P1180	Download	KXP1180.PRI	
KX-P1191	Standard	KXP1180.PRI	
KX-P1540	Diablo Extended	#1 24LQ1500.PRI LQ1500.PRI #2 D630.PRI	
	Epson Diablo	LQ1500X.PRI KXP1000.PRI KXP1000.PRI KXP1000.PRI	
KX-P1592	Download	#2 D630.PRI	
KX-P1595	Download	#1 24LQ2500.PRI	Printer needs KX-P43 buffer.

Extra set files for KX-P1124/1624 (Standard mode):

LQ2500.#CO (Courier) LQ2500.#PG (Prestige)
LQ2500.#SC (Script) LQ2500.#SS (Sans Serif)

LQ2500.PRI supports the Roman font for the KX-P1124, while KXPE1624.PRI supports the Bold PS font for the KX-P1624. If you wish to use the above Character Set files with KXPE1624.PRI you must rename them so that the first part of the filename (the LQ2500 part) is replaced with KXPE1624. So, for instance, LQ2500.#SS must be renamed KXPE1624.#SS.

Extra set files for KX-P1124/1624 (IBM mode):

KXPIBM24.#CO (Courier) KXPIBM24.#PG (Prestige)
KXPIBM24.#SC (Script) KXPIBM24.#SS (Sans Serif)

KXPIBM24.PRI supports the Roman font for the KX-P1124, while KXPI1624.PRI supports the Bold PS font for the KX-P1624.

MODEL MODE DRIVER COMMENTS

Panasonic (continued)

KX-P1695		# FX800.PRI	
	Extra set files for KX-P1180/1191/1695:		
	KXP1180.#BP (Bold PS)	KXP1695.#SC (Script, KX-P1695 only)	
	KXP1180.#PG (Prestige)	FX800.#SS (Sans serif, KX-P1695 only)	
	KXP1180.#CO (Courier)		
	KXP1180.PRI supports the Sans Serif font. FX800.PRI supports the Roman font.		
	KX-P3131	#2 D630.PRI	D630.PRI
	KX-P3131U	#2	D630.PRI
	KX-P3151U	#2	HPLASER.PRI
	KX-P4420 LP	FX800.PRI IBMPRO.PRI	Extra set file: FX800.#SS
	Epson IBM	IBMPRO.PRI	
	Diablo	D630.PRI	
	KX-P4450 LP	# HPLASER.PRI	Extra set files: HPLASER.#T8 HPLASER.#H4 These sets are usable if the printer is fitted with the KX-P470 card; otherwise only fixed pitch fonts are supported. Extra set file: FX800.#SS
	Epson IBM	FX800.PRI IBMPRO.PRI	
	Diablo	D630.PRI	
	KX-P4450i LP	#2 D630.PRI	Extra set file: FX800.#SS
	Epson IBM	IBMPRO.PRI	
	Diablo	D630.PRI	

Quendata

EX80
1120 DWP

BUSICOM.PRI Extra set file: CHR96.#US
GAKKEN.PRI Extra set file: CHR96.#US

Qume

Crystalprint II

HPLASER.PRI Extra set files: HPLASER.#T8
HPLASER.#H4. These sets are usable if the printer is fitted with the FF card; otherwise only fixed pitch fonts are supported.

Letterpro+
Letterpro 20
Sprint 5
Sprint 9
Sprint 10
Sprint 11

QUME.PRI
QUME.PRI
QUME.PRI
GAKKEN.PRI Extra set file: CHR96.#US
SIMPLEBS.PRI
+ Printer needs appropriate QUME connection module.

Qume
Diablo
IBM

QUME.PRI
D630.PRI
IBMWHL.PRI

MODEL	MODE	DRIVER	COMMENTS	MODEL	MODE	DRIVER	COMMENTS
Remstar							
202		REMSTAR.PRI		JX-9300	HP LaserJet	HPLASER.PRI	
205		REM205.PRI			Diablo	+ D630.PRI	
401		HERMES.PRI			Epson	+ FX80.PRI	
Ricoh					IBM	IBMPRO.PRI	Requires add-on interface
RP 1600				JX-9500	HP LaserJet	HPLASER.PRI	
Samleco							
DX-85		FX80.PRI			Diablo	+ D630.PRI	
DX-86		FX80_NLQ.PRI			Epson	+ FX80.PRI	
DX-135		FX80.PRI			IBM	IBMPRO.PRI	
DX-136		FX80_NLQ.PRI		MZ-1PO2		OKI82A.PRI	Extra set file: OKI82A.#17 (Standard 17)
Sanyo							
PR3000				The extra set file selects 17-pitch, and does not allow the mixing of separate pitches on a line (which means that LocoScript will not allow them to be mixed within a document).			
PR5200				The OKI82A.PRI file itself supports 10 pitch.			
Schneider							
SD15		SD15.PRI		Shinwa			
SD24	Download	+ 24LQ1500.PRI		CP-80		RX80A.PRI	
	Standard	+ LQ1500.PRI		Silver Reed			
	Extended	+ LQ1500X.PRI		EX32		SIMPLEBS.PRI	
				EX34		SIMPLEBS.PRI	
				EX36		SIMPLEBS.PRI	
				EX43/43N		SIMPLEBU.PRI	Printer needs I/F40 or I/F44 interface.
				EX44		SIMPLEBU.PRI	Printer needs I/F40 or I/F44 interface.
				EX66/66FD		+ D630.PRI	Printer needs comms interface.
				EX66IF		+ D630.PRI	
				EX200		+ D630.PRI	
				EX300		+ D630.PRI	
				EXP400		+ D630.PRI	
				EXP420		+ D630.PRI	
				EXP500		D1610.PRI	
				EXP550		D1610.PRI	Printer must be used in 'serial print' mode. Extra set file: CHR96.#US Printer must be used in 'serial print' mode. Extra set file: CHR96.#US
				EXP600		+ D630.PRI	
				EXP770		+ D630.PRI	
				EXP800		+ D630.PRI	
				EZ30		+ D630.PRI	Printer requires 'comms pack'.
				EZ50		+ D630.PRI	Printer requires 'comms pack'.
Smith Corona							
EL4000				EL4000		EL4000.PRI	
L1000				L1000		+ SIMPLEBS.PRI	
TP-1				TP-1		+ TP1.PRI	

MODEL MODE DRIVER COMMENTS

Star Micronics

Delta-15 GEMINI.PRI Wide version of Gemini-10X
 FR-10 FR10.PRI
 FR10IBM.PRI
 FR-15 FR10.PRI Wide version of FR-10.
 FR10IBM.PRI

Extra set files for FR-10/15 (Standard mode):

FR10.#CI (Cinema)
 FR10.#OB (OCR-B)
 FR10.#SC (Script)
 FR10.#TW (TW-Light)

The FR10.PRI file supports the built-in Courier font.

Extra set files for FR-10/15 (IBM mode):

FR10IBM.#CI (Cinema)
 FR10IBM.#OB (OCR-B)
 FR10IBM.#SC (Script)
 FR10IBM.#TW (TW-Light)

The FR10IBM.PRI file supports the built-in Courier font.

Gemini-10X GEMINI.PRI
 LC-10 LC10.PRI
 LC-15 LC10.PRI

Extra set files for LC-10/15:

LC10.#OC (Orator Caps)
 LC10.#SS (Sans Serif)
 LC10.#OL (Orator)

The LC10.PRI file supports the built-in Courier font.

LC24-10 Download ‡ 24LC24.PRI
 Standard LC24.PRI

LC24-15 Download ‡ 24LC24.PRI
 Standard LC24.PRI

Extra set files for LC24-10/15 (Standard mode):

LC24.#OR (Orator)
 LC24.#SC (Script)
 LC24.#PG (Prestige)

The LC24.PRI file supports the built-in Courier font.

LC24-200 Download ‡ 24LC2400.PRI
 Standard LQ2500.PRI

Extra set files: LQ2500.#SS
 LQ2500.#CO LQ2500.#PG
 LQ2500.#SC

LC-200 Standard FR10.PRI

Extra set files: FR10.#SS FR10.#OR
 FR10.#SC

IBM FR10IBM.PRI

Extra set files: FR10IBM.#SS
 FR10IBM.#OR FR10IBM.#SC

MODEL MODE DRIVER COMMENTS

Star Micronics (continued)

LP-8 HPLASER.PRI Widths incorrect in PS.
 NB-15 NB15.PRI Italics only available with font cartridge.

NB24-10 Download ‡ 24NB24.PRI
 Standard NB24.PRI
 IBM IBMPRO.PRI

Wide version of NB24-10.

NB24-15 Download ‡ 24NB24.PRI
 Standard NB24.PRI
 IBM IBMPRO.PRI

ND-10 † FX80_NLQ.PRI
 Epon IBM

ND-15 † FX80_NLQ.PRI
 Epon IBM

NL-10 † FX80_NLQ.PRI
 Epon IBM

NR-10 † FX80_NLQ.PRI
 Epon IBM

NR-15 † FX80_NLQ.PRI
 Epon IBM

NX-15 † FX80_NLQ.PRI
 Epon IBM

PowerType DMP2000.PRI

SG-10 † GAKKEN
 Epon GEMINI.PRI

SG-15 † IBMPRO.PRI
 Epon GEMINI.PRI

SR-10 † GEMINI.PRI
 Epon GEMINI.PRI

SR-15 † GEMINI.PRI
 Epon GEMINI.PRI

XB24-10 † 24LQ2500.PRI
 Download LQ2500.PRI

XB24-15 † 24LQ2500.PRI
 Download LQ2500.PRI
 Standard

Extra set files for XB24-10/15 (Standard mode):
 XB24.#BL (Blippo)
 XB24.#HL (Helvet)
 XB24.#OA (OCR-A)
 XB24.#OP (Optimo)
 XB24.#PG (Prestige)
 XB24.#SR (Roman SLQ)
 XB24.#TW (TW-Light)

XB24.#CI (Cinema)
 XB24.#LG (LetterGothic)
 XB24.#OB (OCR-B)
 XB24.#OR (Orator)
 XB24.#SC (Script)
 XB24.#SW (TW-Light SLQ)

Extra set file: CHR96.#US

Wide version of SG-10.

Wide version of SR-10.

Wide version of XB24-10.

The XB24-10/15 printers must be operated in standard (Epson) mode. LQ2500.PRI supports the Roman font. Note that the Prestige font also supports extra Greek characters (the 'Greek' font described in the XB24 printer manuals, which uses the Prestige typeface). Note also that, as there are more than 10 character set files available for these printers, you will need to set up another 'printer' in order to make use of all of them on your system.

MODEL MODE DRIVER COMMENTS

Tandy			
DMP-106		IBMPRO.PRI	
DMP-430		IBMPRO.PRI	
DWP-210		DWP410.PRI	
DWP-220		DWP220.PRI	
DWP-230		DWP220.PRI	
DWP-410		DWP410.PRI	
DWP-510		DWP220.PRI	
Toshiba			
Express			
Writer 311	Download	†① 24LQ2500.PRI	
	Standard	LQ2500.PRI	Extra set file: LQ2500.#CO
	IBM	IBMPRO.PRI	
P321	IBM	IBMPRO.PRI	
	Qume	② QUME.PRI	
P341e	IBM	IBMPRO.PRI	
	Qume	② QUME.PRI	
P351	IBM	IBMPRO.PRI	
	Qume	② QUME.PRI	
P351C	IBM	IBMPRO.PRI	
	Qume	② QUME.PRI	
Triumph-Adler			
OM 2000		†② D630.PRI	
TRD-7020		†② D630.PRI	
Uchida			
DWX-305		② GAKKEN.PRI	Identical to Gakken 2000. Extra set file: CHR96.#US
Walters			
Printmate 350		IBMGP.PRI	
SX		IBMGP.PRI	
WM-100		+ FX80.PRI	
WM-2000		WM2000.PRI	
WM-4000		<u>WM2000.PRI</u>	
Xerox			
610-CP		610CP.PRI	

EXTRA CHARACTER SETS FOR LOCOSCRIPT 2 PRINTER DRIVERS

Some printers used under LocoScript 2 have access to more than one font or, in the case of daisy-wheel printers, more than one wheel. If you are using the printer's built-in characters (ie. you are not downloading characters) the .PRI file includes a Character Set description. For some printers, extra Character Set files are provided, enabling you to use different typefaces and different printwheels. Most of these extra Character Sets are included in the main list. Those which are applicable to several different printers are listed here.

① 24 Pin Download Mode

All printers which support this mode use files with names of the form 24xxx.PRI. All of these may be used with the following Character Set files:

- 24PIN.#ST (Standard) 24PIN.#SS (Sans Serif)
- 24PIN.#LT (Standard Lt) 24PIN.#LS (Sanserif Lt)

The last two are basically lighter (less bold) versions of the first two. Further character set files supporting this mode are available on the LocoFont 24 disc.

Remember that you **must** rename the files so that the first part of the filename (up to the dot) is the same. We recommend renaming 24xxx.PRI to 24PIN.PRI

② Drivers for Diablo 630, Qume, and compatible printers.

These drivers include a Character Set description for an arbitrary 96-petal 'UK' wheel - they contain the standard 94-character ASCII set, plus the following:

- 95th petal: £ symbol.
- 96th petal: ¬symbol.

In addition the set file CHR96.#US is provided, which has the following differences:

- 95th petal: ¢ symbol.

The # and the £ character will print the same: either as # or £, depending upon which character is provided on the daisy-wheel on the 96th petal.

③ Extended Character Set wheels

Some Diablo 630 and compatible printers use 'Extended Character Set' wheels or (in the case of compatible printers) simply support the character sets represented on those wheels. These printers can use the following Character Set files.

- D630.#EI (ECS IBM PC) D630.#EM (ECS Multi)
- D630.#ES (ECS Science) D630.#ET (ECS Teletext)

*Remember: You **MUST** make the first part of the name of your Character Set files the same as the first part of the name of the .PRI file. So, for example, to use HPLASERF.#T8 with HPLASER.PRI you must rename it to HPLASER.#T8*

Appendix II:

Different kinds of printer

Printers range in their ability from the very dim to the quite clever – the cleverer the printer, the more features of LocoScript it can support. However, the only printers which let you use all LocoScript's characters, pitches and print styles are:

- the built-in dot-matrix printer for the PCW8256/8512
- any printer which LocoScript can run in Download mode.

For the purposes of this Appendix, printers fall into one of five categories: simple typewriters and older dot-matrix printers with basic facilities; daisywheel printers; 9-pin dot-matrix printers; 24-pin dot-matrix printers; and laser printers. We'll look at the support we provide for each of these categories in turn.

Simple typewriters and older dot-matrix printers

These are the least clever of the printers we support and generally have limited ability to enhance text with different print styles such as bold and double strike.

With some of these printers, you're restricted to one Character pitch. On others, it may be possible to change the pitch via an option switch on the printer. In such cases, simply creating a new Character Style with the appropriate pitch setting and changing the options switch to match will allow you to print in this pitch. However, you are still restricted to one pitch per document. (You can find out more about Character Styles from Session 20 of the LocoScript 2 User Guide if you have a PCW8256/8512 or Session 23 of the User Instructions if you have a PCW9512.)

Although we can support these printers, we would recommend you to use a better printer if possible! In many cases you'll find that the built-in dot-matrix printer on the PCW8256/8512 machines has a far greater range of features. In addition, many of the typewriters require an interface on the typewriter (as well as on the PCW) and the results you can achieve may not justify the cost of the extra hardware.

Daisy-wheel printers

This group includes more sophisticated typewriters and daisy-wheel printers. What they have in common is a Horizontal Motion Index (or HMI) feature. We can use this feature to vary the spacing between the characters enabling us to justify text neatly, and also to support different pitches and different emphases – Bold, Double-strike, and so forth. Similarly we can make use of the Vertical Motion Index (or VMI) facility to control the line spacing and produce effects such as Superscript and Subscript characters.

❶ Certain printers which are supported by the FX80.PRI or FX80_NLQ.PRI files and which can access the IBM graphics character set should use the file FX80.#IB.

❷ HPLASERF.#T8 (which supports Times 8pt) and HPLASERF.#H4 (which supports Helv 14pt) are used by the HP LaserJet and compatibles, when fitted with the 'F' or 'P' font cartridges. HPLASER.PRI supports the Times 10pt font for these cartridges, when you use proportional spacing. Courier and Line Printer fonts are supported by all of the Character Set files when the appropriate fixed pitches are selected.

❸ Most LQ2500-like printers are supplied with only two built-in fonts – Roman, supported by LQ2500.PRI, and Sans Serif, supported by LQ2500.#SS. But there are five more Character Set files principally for use with Epson printers:

Typeface	Character Set
Courier	LQ2500.#CO
Prestige	LQ2500.#PG
Script	LQ2500.#SC
OCR-A	LQ2500.#OA
OCR-B	LQ2500.#OB

❹ LX800.#SS supports Sans Serif; it is for use with LX800.PRI, which itself supports the built-in Roman font.

❺ FX800.#SS supports Sans Serif; it is for use with FX800.PRI, which itself supports the built-in Roman font. FX800.#SS is primarily for use with Epson FX and EX printers.

❻ LQ1500.PRI is a 'generic' driver which may be used for an 'unknown' 24-pin printer (ie. one which does not appear in the printers list) which is said (usually by the printer manual) to be Epson-LQ compatible. If it uses the IBM character set, it may in fact use one of two varieties, the differences being as follows:

ASCII	Normal IBM	Alternative IBM
&BA	(Not supported)	Parallel
&DF	Filled box	(Not supported)
&F9	Decimal point	Bullet
&FA	(Not supported)	Decimal point
&FC	Superscript N	Eta lower
&FE	Bullet	Filled box

If your printer uses 'Normal IBM', you need to use LQ1500.#IB; if your printer uses 'Alternative IBM', you need to use LQ1500.#IC. In either case, the option switches on the printer should be set to select the IBM character set.

If you do, you must rename the Character Set files, replacing LQ1500 with LQ1500X, so that for instance, LQ1500.#IB must be renamed as LQ1500X.#IB.

There are two effects worth noting about using daisywheel printers – the loss of bi-directional printing on some printers and the range of characters you can print.

Some daisywheel printers which can print bi-directionally are unable to do so when used with LocoScript 2. This is because they have a tendency to suspend bi-directional printing if there are any commands to, say, change the pitch, in a line. In these cases constant changing of the HMI to get the correct spacing for justified text means that the printer will never print bi-directionally. This does not affect the printed document – it only affects the overall speed of printing. A 'fast' daisywheel printer which prints uni-directionally will beat a slow one which boasts bi-directional printing.

As far as the range of characters is concerned, you're limited to the characters that appear on the printwheel. This in itself may not be a problem but, in some cases, you may find you can't print all the characters which do appear on the wheel. Printing all the characters relies on a match between the Character Set used and the characters on the printwheel. We have designed the Character Set in the Printer Driver file so that it will support most characters on a standard 'English' printwheel. Unfortunately, one manufacturer's view of what is 'standard' may be very different from another manufacturer's. In practice, this means that although you'll always be able to print the characters 0 to 9 and a to z, you may have trouble printing characters such as £ and #. To counter this problem, we've produced CHARKIT. This program lets you create your own Character Sets to match the printwheels you use. CHARKIT was included on the old Character Sets Disc, and is now in the Printer Support Pack.

Dot-matrix printers

We support two types of dot-matrix printers – those with a 9-pin printhead and those with a 24-pin printhead. (We include 18-pin printers in the 9-pin category as, generally, they have the same capabilities as 9-pin printers.) We'll look first at the support we provide for 9-pin printers and then we'll turn our attention to 24-pin printers.

9-pin printers

In general, 9-pin printers do not have the same range of features as 24-pin printers and the smaller number of pins means that they cannot produce characters to the same resolution as 24-pin printers.

One problem with many 9-pin printers is that they don't perform well when printing justified High Quality text. To achieve the right spacing between the words, LocoScript uses a combination of different-sized space characters, printed by changing the character pitch a number of times. Justifying a line of text correctly may require several pitch changes. This is too much for some printers and they have to stop and print the portion of the line as far as the pitch change. The result is an erratic movement of the printhead and therefore slower printing. This effect does not occur in Draft Quality because LocoScript does not try quite so hard to justify the text.

There are some 9-pin printers, such as the Epson FX-800 printer, which allow much better control of spacing. They support a 'space extension' feature, which means that the gap following a character can be varied. By extending the gap after the last character in a word it hardly ever becomes necessary to change pitch to get the spacing required. So your documents print faster because there are no pitch changes to slow things down – except, of course, where you have changed the pitch within the document yourself!

In the past we have not recommended using proportional spacing on dot-matrix printers as we were unable to guarantee the quality of justified text. Even using combinations of different-sized space characters to try to get accurate spacing between the words could result in a slightly ragged right hand edge. The space extension feature provides the fine control over spacing required to achieve perfect justification in proportional spacing. For those printers which support the space extension feature, we are now happy to recommend proportional spacing.

24-pin dot-matrix printers

24-pin dot-matrix printers tend to give better results than 9-pin printers. All the standard printer files for 24-pin printers use the 'space-extension' feature to give perfect justification. They also let you use the printer's built-in typefaces.

What's more, most 24-pin printers can accept downloaded characters and this means you can print all of LocoScript's characters in any style or pitch supported by LocoScript.

Laser printers

The last category is laser printers. These printers have a reputation for giving high quality output and, like 24-pin printers, usually offer a choice of fonts to work with. On most laser printers, you can expand the range of fonts available by slotting font cards into the printer, and some of them will accept downloaded characters.

For each extra font you need a matching Character Set. Where suitable Character Set files are not already supplied on the Character Sets Disc, you can use CHARKIT to create an appropriate Character Set for each font. It's worth noting that on some laser printers you may also need to create a Character Set to print proportionally spaced text.

'Soft fonts'

Some laser printers support what are known as 'soft fonts', that is, fonts which can be loaded into the printer from the computer, and then accessed as if they were on a font cartridge, or built into the printer's hardware. LocoScript 2 does not support soft fonts directly. However, if you use another program to load a soft font into your printer you can then access that font using LocoScript 2, provided you have a suitable Character Set file. (You will, of course, have to reload the font every time you turn the printer off.)

Double-width

If you specify double-width characters on a laser printer, most laser printers will print ordinary characters, but will print them twice as widely spaced. (But this does not apply to all laser printers; the Epson GQ laser printers, for instance, will print double-width characters properly.)

Special features of Laser Printers

With any printer, you choose the font you want to use by selecting the appropriate Character Set in the Printer menus. As LocoScript works with one Character Set for each document, the basic rule is that you can't mix fonts in a document.

However, laser printers work rather differently from other kinds of printer, and to get to know how and why they produce certain effects, it is important to understand about laser printer fonts – what they are, and how laser printers handle them.

A laser printer font is a collection of characters of the same typeface, point size (height), pitch, weight (ie. whether bold or not), style (upright or italic) etc.

When a laser printer needs to print in bold, say, it doesn't simply 'thicken' each character, in the way that other printers do. It switches to a completely different laser printer font – one in which the characters are designed to appear bolder than the standard weight characters.

However, a laser printer can only store a limited number of these fonts, and so sometimes it has to compromise on what LocoScript 2 asks of it. For instance, many printers store one font for plain text, one for bold, and one for italic, but no font for bold and italic. So if LocoScript 2 asks for bold and italic, the printer cannot produce both at once, and will have to choose one or the other. It actually chooses italic in preference to bold, for reasons about to be explained.

Every laser printer font has the following eight attributes:

- Orientation (Portrait or Landscape)
- Character Set (The symbol set – what characters can be printed)
- Spacing (Proportional spacing or constant width characters)
- Character Pitch (The width of the characters)
- Point Size (The height of the characters)
- Style (Upright or italic)
- Weight (Bold or plain)
- Typeface (eg. Times, Helvetica, Lineprinter)

This order shows the priority of the different attributes.

Since upright or italic style has greater priority than bold or plain weight, a laser printer will ignore the bold part of an instruction to print bold italic if this is the only way it can be made to print in italic.

For a more detailed example of how this works, suppose the printer is printing text in the Times typeface, in italic style but plain weight (ie. not bold). And suppose that part of the way through the document, it needs to switch to bold – because the document contains a (+Bold) code.

LocoScript 2 will ask the printer to switch to a font with Times, in italic, and in bold. If the printer has a suitable font, it will do this. But if it doesn't have a font with Times bold italic, it will compromise, and the first thing it will try to change is the lowest attribute on the list – the typeface. Suppose that there is a font with Helvetica in bold and italic. The printer will change to that font, and you will see the printing in bold italic, as you requested, but you may be surprised to see a change of typeface.

When the LocoScript 2 document turns off bold text – by means of a (-Bold) code – the printer will be asked for Times unbold italic; it will therefore switch back to its original font, and you will see the typeface change from Helvetica back to Times.

Deciding on a printer

There's no obvious answer to the question what is the best printer – it depends on your priorities. If you want to print all LocoScript's characters, then the best answer to the question 'Which printer?' is a printer which can accept downloaded characters – either a 24-pin dot-matrix or a suitable laser printer. Used with a suitable printer, files in the Printer Support Pack (formerly found on the 24 Pin Printer Drivers Disc) provide full support for all LocoScript's features. These printers also give high quality printing and in general will be faster than the built-in printer for the PCW8256/8512.

If you're concerned with the quality of print, then you might consider a laser printer. Typically these printers are more expensive than other types of printer. One thing to bear in mind is that you may need to use CHARKIT to produce a suitable Character Set to print in proportional spacing.

If you intend buying a daisywheel printer then we recommend that you make sure it has an HMI facility – without this, the range of LocoScript's features you can use will be limited. You should also note that on some, but not all, daisywheel printers you may lose the printer's bi-directional capability.

Appendix III:

Option switches

Nearly every printer has a number of switches and buttons which are used to control it in various ways. (We'll call them *switches* throughout this section even though they may be buttons or touch-sensitive panels.) Some of them must be set appropriately for LocoScript 2 to work properly. Some will have no effect on the way LocoScript 2 works. Some must not be changed from the factory setting.

However there's one overriding rule which you should always observe: *never adjust any of the printer's controls while you are running LocoScript 2.*

The reason for this is quite straightforward. Many printer features can be altered in two ways: by the user setting the switches, or by commands sent electronically from the computer. You may have pressed a button on the printer to set Draft Quality, but nevertheless you will still get High Quality if LocoScript 2 sends a command to override the switch setting.

LocoScript 2 sends lots of these commands and it assumes the printer has received the commands and acted on them. So if you start interfering with the printer on LocoScript's behalf, both the printer and LocoScript (and you) are likely to be working at cross purposes.

You may not have to adjust the switch settings at all. Most printer manufacturers set the switches on their printers to the settings required by many programs before they sell them. So if the thought of fiddling with printer switches fills you with foreboding, try running LocoScript 2 without adjusting the printer switches at all; you are quite likely to find it works perfectly well.

On the other hand, if your printer doesn't work at all – absolutely nothing is printed – it's unlikely to be because you've got the switches set wrongly. It's much more likely that you haven't connected the printer to your computer properly (or that you've connected it to the wrong port), that there's no paper in the printer, or that you've simply forgotten to switch the printer on.

Which switches need changing?

So you've decided to read on, either because the printer's factory settings don't work or you're just curious about what the switches do!

The first thing to understand is that many of the switches can be set however you like (provided you don't adjust them while LocoScript 2 is running). This can be very useful: if you use programs other than LocoScript 2 you may want to adjust these switches to conform with the other programs.

There are two reasons why LocoScript 2 may not care what position a switch is in:

- **LocoScript 2 can override the switch**

Switches which control the way the print appears on the paper – bold, italic, draft mode, 15 characters per inch, etc. – can nearly always be overridden. So can switches which govern the nationality of the character set.

You can find more information about this from the printer's own manual. The special commands the computer uses to control the printer are called *escape sequences* or *control codes*. If one of these commands corresponds to a switch setting, then the setting can be overridden and it doesn't matter how you set the physical switch on the machine.

For example, suppose there is a switch to control the character set your printer uses, and you aren't sure how this switch should be set. If you find in the printer's own manual that there is an escape sequence to switch from one internal character set to another, then we'll have programmed LocoScript 2 to adjust it for you, and it doesn't matter how that switch should be set.

- **The feature is irrelevant to LocoScript 2**

A switch doesn't need to be adjusted if it controls a feature LocoScript 2 never uses. LocoScript 2 never sounds the printer's buzzer, for instance, so a switch to turn the buzzer on or off can be set to any position.

As a less trivial example, suppose your printer is connected through a parallel interface. Then the switches which affect the baud rate, the number of stop bits, the parity, and the protocol are irrelevant, because these features are only used by the serial interface. Similarly a switch controlling the paper length can be set to whatever you like, because LocoScript 2 works out the paper length for itself.

Switch settings

This section deals with the switches which must be set in a particular way for LocoScript 2 to print your documents correctly. It's hard to be dogmatic about which switches these are, and in general all we can do is offer you the following pointers and suggest that you try them and see what works. You can't damage either the printer or the computer by trying incorrect settings: the worst that can happen is that the printer won't print your document correctly.

Auto line-feed

Some printers will automatically add a line feed after each carriage return character sent from the computer. If you have the option, turn this feature **OFF**. LocoScript 2 sends its own line feeds when it needs them.

Auto carriage return

Likewise, some printers will automatically add a carriage return after each line feed, and this feature should also be turned **OFF**.

Character Pitch or Mode

This feature can usually be controlled by the software, and so it is not normally important how you set the switch. For printers where it is important we recommend that you select **Pica** or **10 pitch**.

Data bits

The term *data bits* is used to describe two separate concepts, and it is difficult to explain the difference without getting very technical. Fortunately, no matter which concept is referred to, the correct setting is **8**.

Zero slash

Many printers can print zeros with a slash through them so that you won't confuse them with the letter O. If this feature can be controlled from the computer you should set the switch to **unslashed zero**; LocoScript 2 will then adjust it for you. If zero slashes can only be set from the printer switches, you are free to choose for yourself which you want.

Paper out sensor

It doesn't matter which position this switch is set to.

Skip perforations

When using continuous paper, some printers will automatically leave a gap of about an inch at the bottom of each sheet so that they don't print across the perforations. If you have the option, **disable** this feature.

Buzzer

It doesn't matter which position this switch is set to.

Character Set

It doesn't matter which position this switch is set to.

Page length

It doesn't matter which position this switch is set to.

Line buffer full

It doesn't matter which position this switch is set to.

SLCT IN

The options for this switch have many different names depending on which printer you have. You should choose **Printer select** (or **FIXED**, or **ENABLE**, or **LOW**, or **AUTOMATICALLY SENT**)

On the Amstrad range the SLCT switch must be set to **ON**, except on the DMP4000, where it must be **OFF**.

Print mode at power on **Normal**

Special settings for serial printers

The remaining options affect how a serial interface works; there is no need to worry about them if your printer is attached through a parallel interface. Unlike some of the other options they are only recommendations. However, they must agree with the values specified in the 'Printer options' menu (selected by choosing **Printer defaults** from the f6 Settings menu).

Baud **9600**

Data bits **8** (See 'Data bits' above)

Stop bits **1**

Parity **None**

Protocol **Ready/Busy**