

Linx 5900 & 7900



How To Use the USB Connection

LINX

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1 Introduction

This document describes how to use the USB connection of the 5900 and 7900 printers to save messages from the printer to a USB memory stick and transfer messages to the printer from a memory stick. It also describes how to copy logos from a USB memory stick to the 5900 printer (this option is not available on the 7900 printer as the printer has logo creation functionality as standard).

This document also describes how to use the USB connection to make a back-up of the printer settings to a memory stick. You can restore the settings to the same printer, or transfer some settings to another printer.

NOTE: The copy message, copy logo, back-up and restore functions are available in the 'IDLE' state. Copy message and copy logo functions are also available in the 'JET RUNNING' state. These functions are not available in the 'PRINTING' state. You must insert a memory stick into the USB connector at the front of the printer before you can perform any of these functions.

Linx recommends that you use a memory stick of 512 MB to 4 GB capacity to save and copy messages, and back up and restore printer settings. Do not use a memory stick that is near its memory capacity. A memory stick that becomes full during a save and copy message or back-up and restore operation can cause the operation to fail.

You need a User Level B password to copy messages with a memory stick. You need a User Level C password to back up and restore printer settings.

CAUTION: Printer Software Damage. DO NOT remove the memory stick until a save or copy message, or back-up and restore, operation is complete. If you remove the memory stick before an operation is complete, you can cause permanent damage to your printer software.

1.1 Health and Safety

Make sure that you read and understand the Health and Safety information in the 'Safety' section of the *Linx 5900 & 7900 Quick Start Guide*.



2 Copy messages

IMPORTANT: Make sure that you read and understand the information on page 2 before you copy messages.

To copy messages from the printer to a memory stick and from a memory stick to the printer:

- 1 At the **Print Monitor** page, press the **Menu** key to display the **Menu** page.

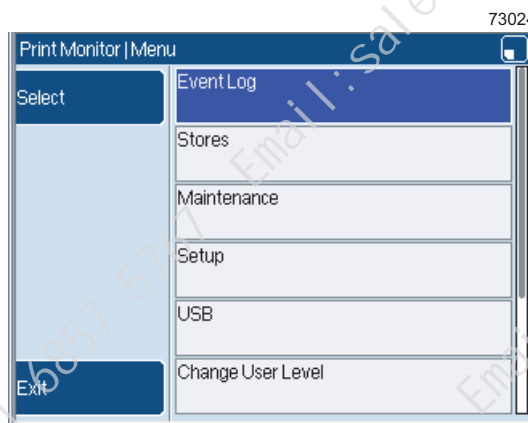


Figure 1. Menu page

- 2 Select the **USB** option to display the **USB** page.

NOTE: The options on the **USB** page are dimmed if a memory stick is not inserted.

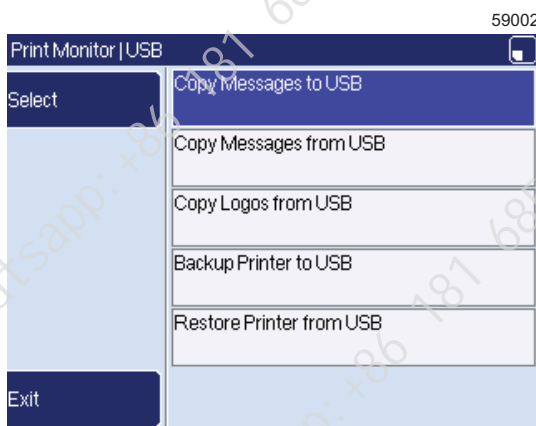


Figure 2. USB page

NOTE: The **Copy Logos from USB** option is not available on the 7900 printer.

If a copy operation fails for any other reason (for example if the operation is cancelled by the operator or if the printer or memory stick becomes full), the printer displays an information message. This message shows the number of correctly copied messages before the copy operation failed (see Figure 7 on page 6).

Press the **Exit** key to return to the selected **USB** menu option.



2.1 Copy messages to a memory stick

To copy messages from the printer to a memory stick:

- 1 Insert a memory stick into the USB connector at the front of the printer (see note on page 2).
- 2 Select the **Copy Messages to USB** option to display the **Copy Message to USB** page. A list of messages that are saved in the printer Message Store is displayed.

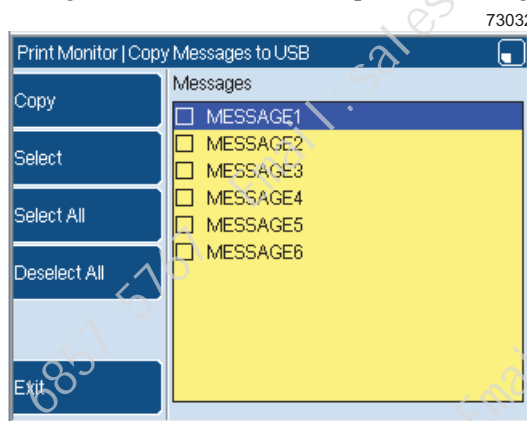


Figure 3. Copy Messages to USB page

NOTE: If there are no messages saved in the printer Message Store, the **Copy**, **Select**, **Select All**, **Deselect**, and **Deselect All** options are not available.

- 3 To select a message to copy to the memory stick, use the Up and Down arrow keys to highlight the name of the required message in the list, and then press the **Select** key. A check mark appears in the box to the left of the message name to show that the message is selected. To select more than one message, highlight each required message, and then press the **Select** key.

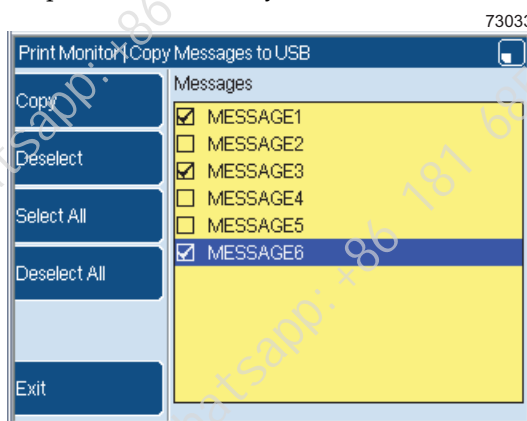


Figure 4. Select messages to copy

To deselect a message, highlight the name of the required message in the list, and then press the **Deselect** key. The check mark in the box to the left of the message name is removed.

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To select all messages, press the **Select All** key. Check marks appear in all the boxes to the left of all the message names. To deselect all messages, press the **Deselect All** key. The check marks in all the boxes to the left of the message names are removed.

The **Copy** key is enabled when any message is selected. The **Copy** key is disabled if there are no messages selected.

- 4 Press the **Copy** key to copy the selected messages to the memory stick. A progress bar shows the progress of the copy operation with the names of the messages as they are copied and a running total of the number of messages copied.

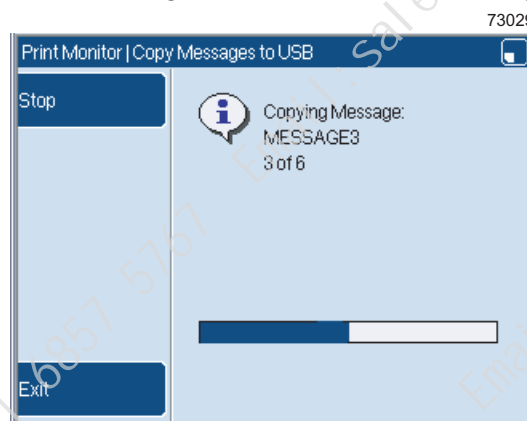


Figure 5. Copy messages progress

If the memory stick contains a file that has the same name, you can do one of the following:

- Overwrite the file on the printer (press the **Overwrite** key).
- Overwrite all files on the printer (press the **Overwrite All** key).
- Cancel the copy operation for all files (press the **Skip All** key).
- Cancel the copy operation for that file (press the **Skip** key).

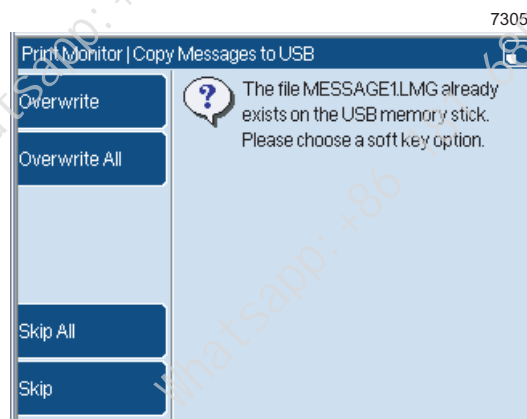


Figure 6. Duplicate file name message



If necessary, press the **Stop** key to cancel the copy operation. An information page confirms that the operation has failed and shows you the number of correctly copied messages.

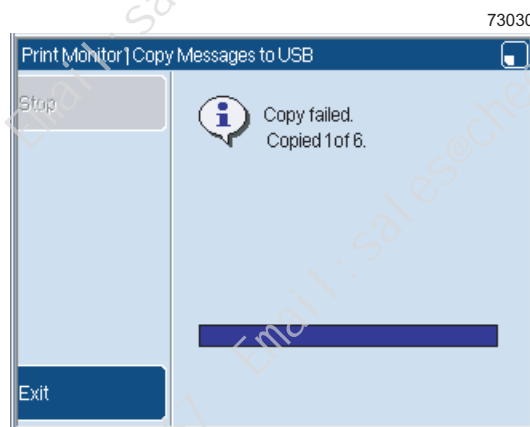


Figure 7. Copy failed message

Press the **Exit** key to return to the **Copy Messages to USB** page.

When the copy operation is complete, a confirmation page is displayed. The number of correctly copied messages is shown.

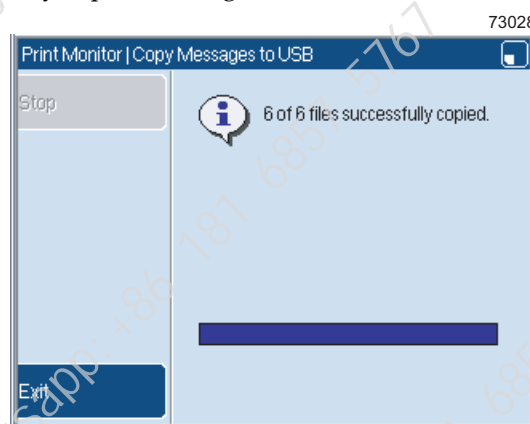


Figure 8. Copy operation complete message

- 5 Press the **Exit** key to return to the **Copy Messages to USB** page.
- 6 Press the **Exit** key to return to the **USB** page.

2.2 Copy messages from a memory stick

NOTE: 5900 only. Messages copied to the printer that contain an unsupported field type (for example, barcode, data matrix, sequential text, or sequential number with multiple ranges in messages copied from a 7900 printer) are invalid. You cannot select, edit, copy, or rename these messages on the **Message Store** page, but they can be deleted.

You use the same method described in the previous section to copy messages from a memory stick to the printer.



To copy messages from a memory stick to the printer:

- 1 Insert a memory stick into the USB connector at the front of the printer (see note on page 2).
- 2 Select the **Copy Messages from USB** option to display the **Copy Messages from USB** page.

NOTE: If there are a large number of messages saved on the memory stick, the printer can take several minutes to display the data.

A list of messages that are saved on the memory stick is displayed.

Messages saved on a memory stick are organised in folders named according to the Linx printer on which they were created. For example, messages created on the 7900 printer are saved in a folder named 'LINUX\7900\MESSAGES'. When you select the **Copy Messages from USB** option, the printer displays by default the appropriate message folder for your current printer (in this example, the 7900), as shown in Figure 9.

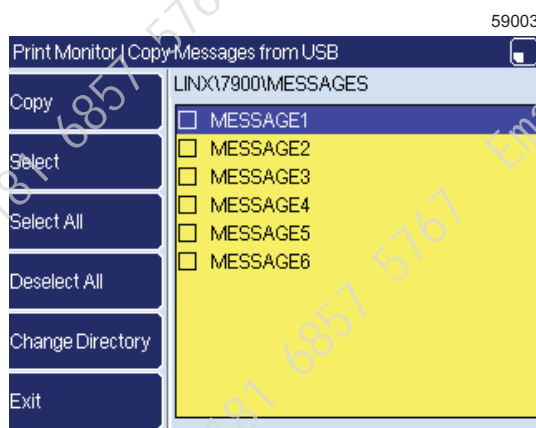


Figure 9. Copy Messages from USB page (7900 printer)

NOTE: If there are no messages saved on the memory stick, the **Copy**, **Select**, **Select All**, **Deselect** and **Deselect All** options are not available.

You can also display the contents of folders on the memory stick that contain messages created on the Linx 5900 and 7300 printers, and then copy messages from them to the printer.



- 3 To display other message folders, select the **Change Directory** option to display the **Change Directory** page.

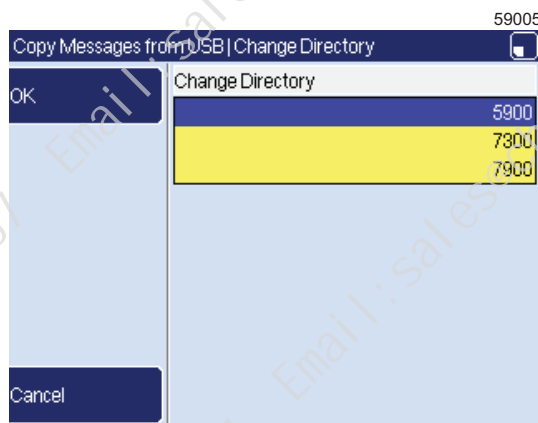


Figure 10. Change Directory page

- 4 Select the printer that you require (for example, the 5900) and press the **OK** key to return to the **Copy Messages from USB** page. The printer displays a list of messages created on the 5900 printer.

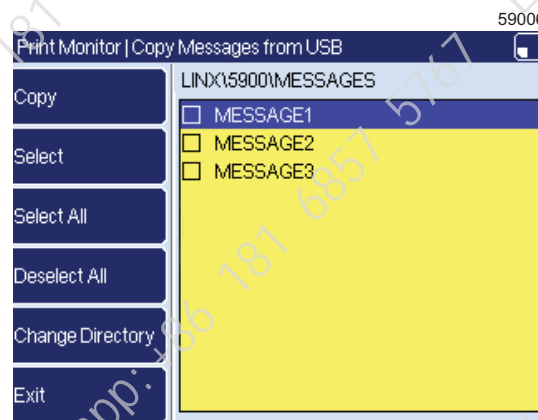


Figure 11. Copy Messages from USB page (5900 printer)

- 5 When you have selected the required folder, select the required messages, as described in 'Copy messages to a memory stick' on page 4.
- 6 Press the **Copy** key to copy the selected messages to the printer. If the printer contains a file that has the same name, you can do one of the following:
 - Overwrite the file on the printer (press the **Overwrite** key).
 - Overwrite all files on the printer (press the **Overwrite All** key).
 - Cancel the copy operation for all files (press the **Skip All** key).
 - Cancel the copy operation for that file (press the **Skip** key).

See steps 4, 5 and 6 of 'Copy messages to a memory stick' for more information about the copy operation.



3 Copy logos

3.1 Copy logos from a memory stick

NOTE: 5900 only. You can copy logos in bitmap (.bmp) file format from a USB memory stick to the printer. Logos created on, for example, a PC should be saved to a folder named 'LINX\5900\LOGOS' on a memory stick. Copied logos can then be added to messages created on the printer, and the messages copied to other printers as described in 'Copy messages to a memory stick' on page 4 and 'Copy messages from a memory stick' on page 6.

This option is not available on the 7900 printer as the printer has logo creation functionality as standard.

Only monochrome bitmap files (normal or inverted) can be copied to the printer.

Only logos that are less than or equal in height to the currently selected maximum print height (based on the rasters available) can be selected for transfer to the printer.

The maximum allowed width of a logo is 1000 mm (based on the standard raster pitch of 0.353 mm, which is equivalent to 2832 pixels).

To copy logos from a memory stick to the printer:

- 1 Insert a memory stick into the USB connector at the front of the printer (see note on page 2).
- 2 Select the **Copy Logos from USB** option to display the **Copy Logos from USB** page.

NOTE: If there are a large number of logos saved on the memory stick, the printer can take several minutes to display the data.

A list of logos that are saved on the memory stick is displayed. Only valid files in bitmap format (see note above) are available for selection.

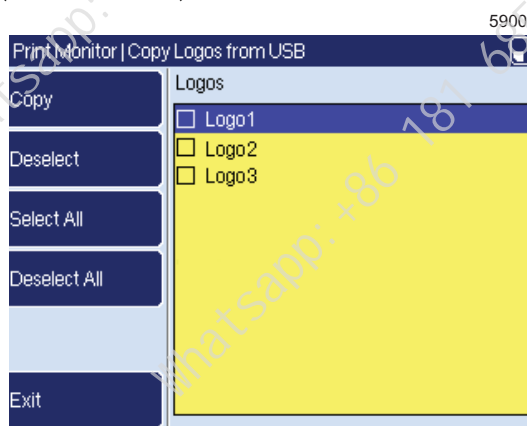


Figure 12. Copy Logos from USB page

NOTE: If there are no logos saved on the memory stick, the **Copy**, **Select**, **Select All**, **Deselect**, and **Deselect All** options are not available.

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- 3 Select the required logos, as described in 'Copy messages to a memory stick' on page 4.
- 4 Press the **Copy** key to copy the selected logos to the printer. If the printer contains a file that has the same name, you can do one of the following:
 - Overwrite the file on the printer (press the **Overwrite** key).
 - Overwrite all files on the printer (press the **Overwrite All** key).
 - Cancel the copy operation for all files (press the **Skip All** key).
 - Cancel the copy operation for that file (press the **Skip** key).

See steps **4**, **5** and **6** of 'Copy messages to a memory stick' for more information about the copy operation. Logo files copied to the printer are saved in the Logo Store.



4 Back up and restore printer settings

IMPORTANT: Make sure that you read and understand the information on page 2 before you back up or restore printer settings.

NOTE: You need a User Level C password to back up and restore printer settings.

You can use a memory stick to make a back-up of the printer settings. You can restore the printer settings to the same printer, or transfer some printer settings to another printer.

You can back up printer settings from more than one printer to the same memory stick. A back-up is saved to the memory stick and identified by a name that shows the date and time of the back-up in the format YYYY\MM\DD HH.MM. Back-ups from other printers are identified with the date and time and a 5-character code for the serial number of the printer used. For example, "2009\07\29 10.29 (AB123)". See Figure 17 on page 14.

You can back up the following printer settings:

- All messages and fields
- System parameters, including shaft encoder configuration, print count, and used SureFill codes
- Logos
- Date formats
- Shift codes
- Bar codes
- Trigger events
- Production schedules
- Orientation sequences
- Printhead parameters (for each supported printhead)
- Message orientations
- Text sequences
- Sequential number fields
- User interface configuration
- Printer configuration code
- Security level passwords, security configuration and current security level
- Communication (RS232 and Ethernet) and protocol settings

You can restore the full range of printer settings shown in the preceding list to a printer with the same serial number code as the back-up.

If the printer has a different serial number code than the back-up, you cannot restore the following printer settings to that printer from the back-up:

- Print count and used SureFill codes
- Printhead parameters (for each supported printhead)
- Printer configuration code
- Security level passwords, security configuration and current security level



- Communication (RS232 and Ethernet) and protocol settings

See 'Restore a printer from a memory stick' on page 14 for more information.

To back up and restore printer settings with a memory stick:

- 1 At the **Print Monitor** page, press the **Menu** key to display the **Menu** page (see Figure 1 on page 3).
- 2 Select the **USB** option to display the **USB** page (see Figure 2 on page 3).

4.1 Back up a printer to a memory stick

To back up printer settings from a printer to a memory stick:

- 1 Insert a memory stick into the USB connector at the front of the printer (see note on page 2).
- 2 Select the **Backup Printer to USB** option to begin the back-up. The back-up operation can take up to 5 minutes. A progress bar shows the progress of the operation.

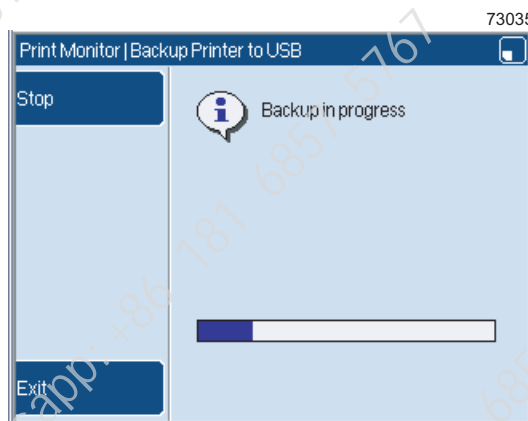


Figure 13. Backup printer progress

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If necessary, you can press the **Stop** key to cancel the back-up operation. An information page confirms that the operation has failed.

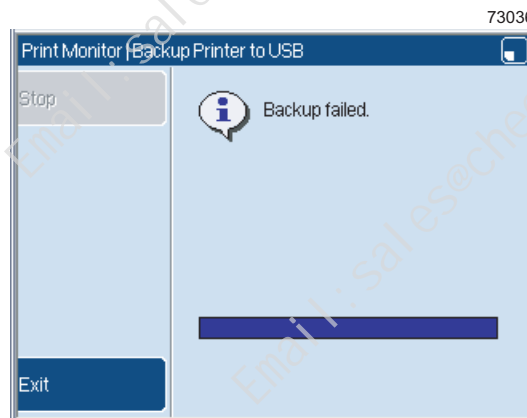


Figure 14. Printer backup failed message

Press the **Exit** key to return to the **USB** page.

When the back-up operation is complete, a confirmation page is displayed.

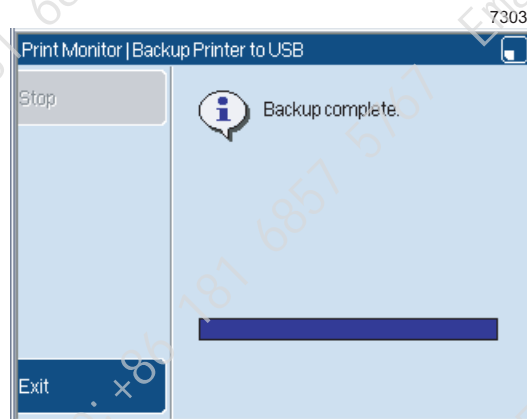


Figure 15. Printer backup complete message

- 3 Press the **Exit** key to return to the **USB** page.
- 4 Press the **Restore Printer from USB** key to show a list of current back-ups from printers (see Figure 16 on page 14.).

If a back-up operation fails for any other reason (for example if the operation is cancelled by the operator or if the memory stick becomes full), the printer displays an information message (see Figure 14). The back-up is identified on the memory stick as not complete and you cannot restore that back-up to the printer.



4.2 Restore a printer from a memory stick

See page 11 for more information about which printer settings you can restore from back-ups.

To restore printer settings from a memory stick to a printer:

NOTE: The printer automatically restarts after a restore operation to apply any changes.

- 1 Insert a memory stick into the USB connector at the front of the printer (see note on page 2).
- 2 At the **USB** page (see Figure 1 and Figure 2 on page 3), select the **Restore Printer from USB** option to display the **Restore Printer from USB** page.

NOTE: If there are a large number of back-ups saved on the memory stick, the printer can take several minutes to display the data.

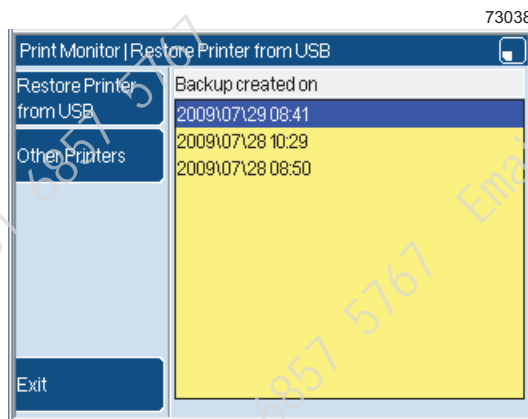


Figure 16. Restore Printer from USB page

The page shows a list of the back-ups that are saved from the current printer. The back-ups are shown in order of date and time (oldest back-up first). Press the **Other Printers** key to show any back-ups that are saved from other printers.

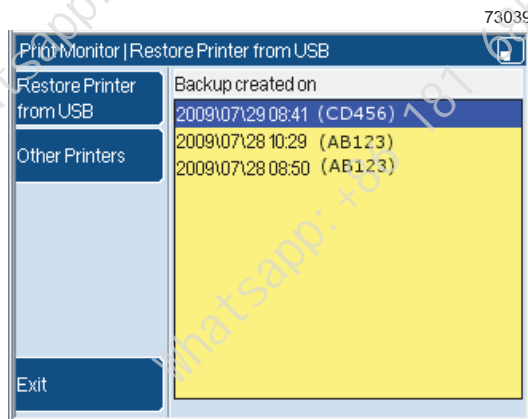


Figure 17. Restore Printer from USB: Other Printers page

Again, the back-ups are shown in order of date and time (oldest back-up first) with the serial number code to identify the printer.

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Press the **This Printer** key to return to the the list of back-ups from the current printer.

- 3 Use the Up and Down arrow keys to highlight the name of the required back-up, and then press the **Restore Printer from USB** key.

You are asked to confirm that you want to restore the printer.

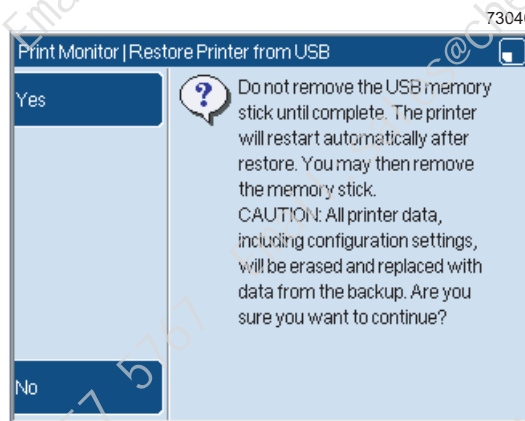


Figure 18. Restore printer confirmation page

IMPORTANT: You cannot stop the restore operation after you press the **Yes** key. The operation can take up to 7 minutes and replaces all current printer settings with the settings saved in the back-up.

- 4 Press the **No** key to cancel the restore operation and return to the **Restore Printer from USB** page. Press the **Yes** key to begin the operation.

A progress bar shows the progress of the operation.

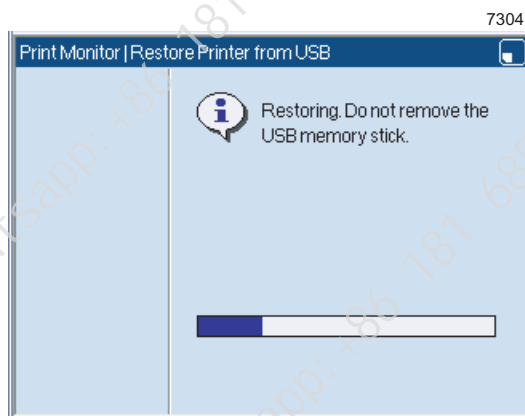


Figure 19. Restore printer progress

When the restore operation is complete, the printer restarts automatically to apply any changes.