



## **Universal Printer Driver Installation Guide**

# Copyright

Copyright ©2018 by Source Technologies. All rights reserved.

No part of this document may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from Source Technologies.

Published in the United States of America by:

**Source Technologies**  
**11401A Granite Street**  
**Charlotte, NC 28273**

Author: Source Technologies

## Notice

This manual serves as a reference for a Source Technologies Secure MICR Printer. This manual should be used as a reference for installing a PCL5 Universal Printer Driver for the full line of Source Technologies Secure MICR printers. Additionally, the manual addresses the use of Separator Pages as one method to enable MICR printing, and a .PCM file to allow the printer driver to recognize and link printer resident MICR and Secure fonts to WYSIWYG applications.

For more information on MICR printing and other methods of programming the Source Technologies Secure Printers, visit our website at [WWW.SOURCETECH.COM](http://WWW.SOURCETECH.COM) and download the appropriate Secure MICR Printer Programmers Guide.

To the best of our knowledge, the information in this publication is accurate; however, neither Source Technologies nor its dealers or affiliates assume any responsibility or liability for the accuracy or completeness of, or consequences arising from, such information. Changes, typos, and technical inaccuracies will be corrected in subsequent publications. This publication is subject to change without notice. The information and descriptions contained in this manual cannot be copied, disseminated, or distributed without the express written consent of Source Technologies. This document is intended for informational purposes only. Mention of trade names or commercial products does not constitute endorsement or recommendation for use by Source Technologies. Final determination of the suitability of any information or product for use contemplated by any user, and the manner of that use is the sole responsibility of the user. We recommend that anyone intending to rely on any recommendation of materials or procedures mentioned in this publication should satisfy himself as to such suitability, and that he can meet all applicable safety and health standards.

All trade names or products used in this manual are for identification purposes only and may be trademarks or registered trademarks of their respective companies.

Document Number: 109313

Revision: A

# 1. Printer and Driver Installation

For complete information on how to unpack and setup your printer, see your printer's user's guide located on a CD labeled with the printer type, ex. ST99xx.

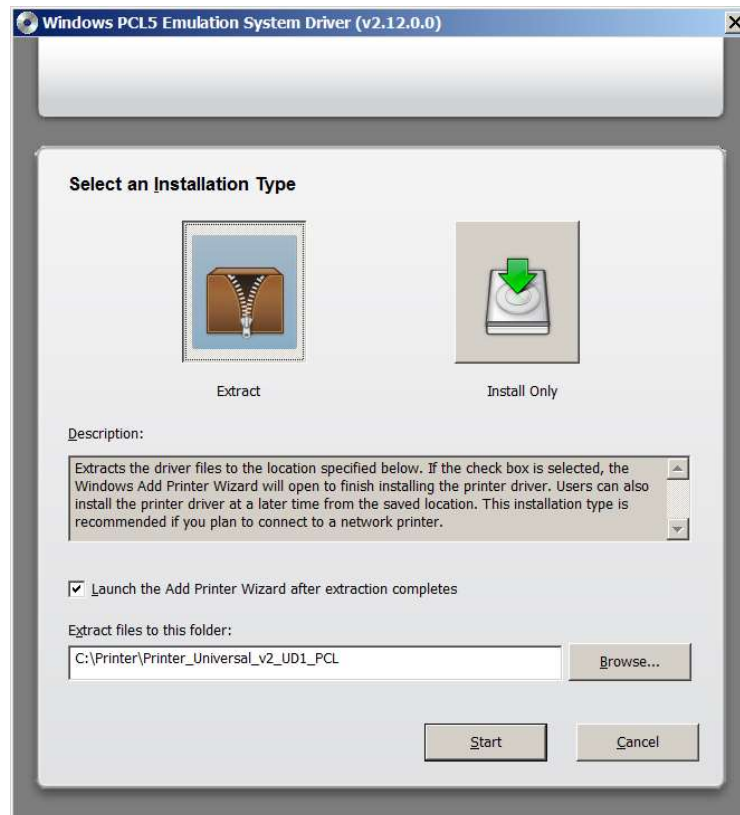
1. Locate the Universal Printer Driver CD that was shipped with your printer and load it into your computers CD ROM drive. You can also find the latest print driver on our website at <http://www.sourcetech.com/printer-downloads>.

Select the file: Printer\_Universal\_v2\_UD1\_PCL5\_Emul\_mmddyyyy.exe

2. Read and Accept License agreement.

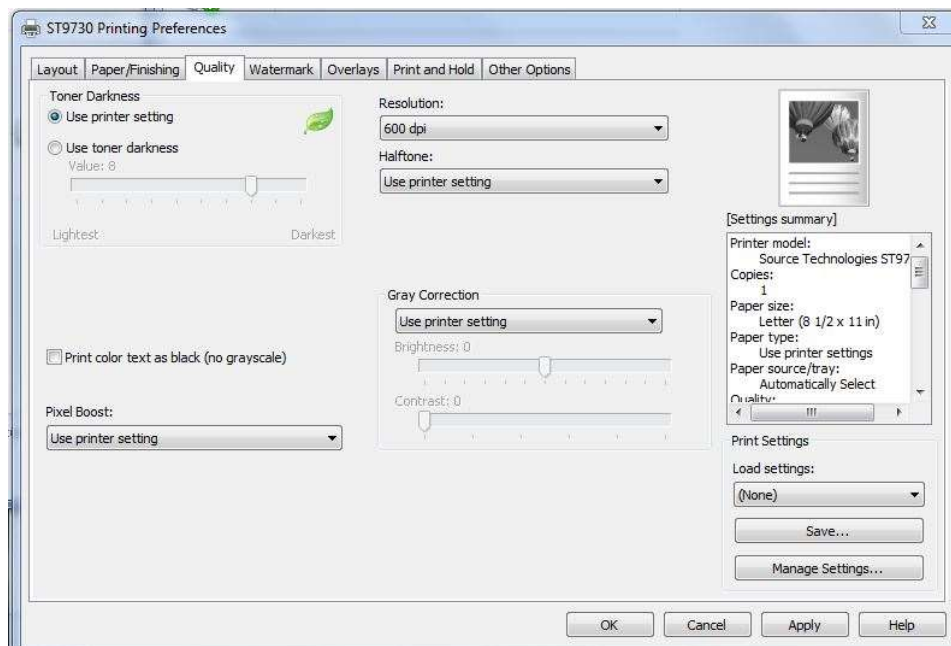
**Note:** Do not connect the printer via USB at this time.

3. When the following screen appears, select the option that best matches your printer connectivity.
  - a. Select Extract and check "Launch the Add Print Wizard..." if your printer is connected via a network or parallel cable.
  - b. Select Install Only if the printer will be connected via USB.

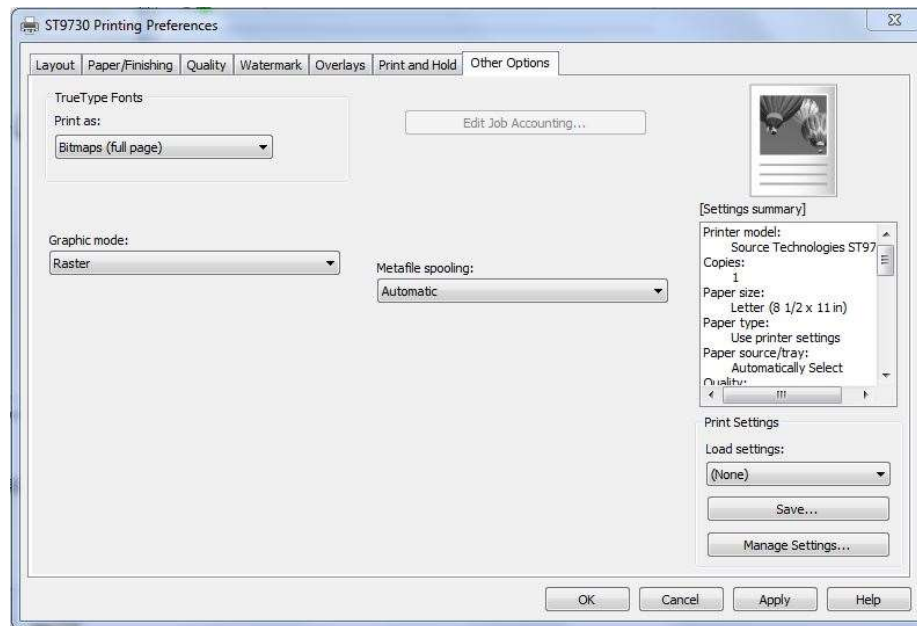


4. Write down or remember the link that appears on Printer Wizard Information screen and press START. i.e. C:\PRINTER\PRINTER\_UNIVERSAL\_V2\_UD1\_PCL

5. Once the files are extracted or Install Only has run, connect the printer's data cable and power the printer on. For USB installs, Windows should complete the addition of the printer to your system and configure it to the proper USB port.
6. For all other installs the Add Printer Wizard should start automatically for you to complete the installation of your printer. Follow the onscreen prompts to:
  - Add a Local, Network, Wireless, or Bluetooth printer
  - Select the proper port used to communicate with the printer from the system.
  - Select Source Technologies as the Manufacturer and Source Technologies Universal v2 as the printer. If Source Technologies is not listed, click **Have Disk** and browse to the location noted in step 4 looking for the GNUM1o40.INF file found in the GDI folder.
  - Choose a name for your printer or click NEXT to accept the default value.
  - Select if you would like to share the printer or not.
  - Select if you would like this to be your default printer
  - Print a windows test page
  - Click Finish to complete your installation.
7. Once the print driver is loaded the following driver settings are recommended under the Printing Preferences.
  - a. On the **Quality** tab the resolution should be set to 600 dpi as seen below.



- b. On the **Other Options** tab set TrueType Fonts to Print as Bitmaps (full page) and Graphic Mode to Raster as seen below as well.





8. If you have any issues with the loading of your printer driver, please contact Source Technologies Tech Support for assistance at 800-922-8501 option 2.

## 2. Configure the driver to recognize the printers internal MICR and Security Fonts in Windows WYSIWYG applications.

**NOTE1:** As of Microsoft Windows 10, most Windows applications do not support the use of 'printer resident fonts' in their font list drop downs. You may need to check with your software provider to see if they support 'printer resident fonts' before proceeding.



**NOTE2:** These steps are not required if you will be programming the Source Technologies MICR commands from the MICR programmer's manual directly into your application.

Before proceeding, copy the file **ST\_FONTS.PCM** from the folder **D:\Config Files** folder on the driver CD to your local machine in a location where it will not be deleted. Your actual drive letter may vary. If you downloaded the driver from our website you will find this folder in the same location as the driver installation file. We recommend all other applications be closed at this time.

1. Click the Find icon  on your Windows Taskbar and search for "print management".
2. Select "run as administrator" to launch the application.
3. Click  **Printers** and locate the printer from the list.
4. *Right-click* on the printer name that was just installed then select **Printer Properties**.
5. *Select* the **Fonts** tab.
6. *Select* **Add**.
7. *Select* **Browse** next to Font Source Path then locate where you placed the ST\_FONT.PCM file.
8. *Select* **Browse** beside the Target Path and select **My Documents**.
9. *Select* the **Search the Path** button.
10. *Select* the check box beside **ST Font Collection**.
11. *Select* the check box beside each font to be used.
12. *Select* **OK** to finish setup.
13. Proceed to the section titled Configure the Printer to Enable MICR Mode. The fonts will not print properly until this step is complete.

**Note:** *The steps above may vary depending on the operating system being used.*

**Note:** The following fonts and point sizes are supported. From an application, highlight the font, select the font type then point size.

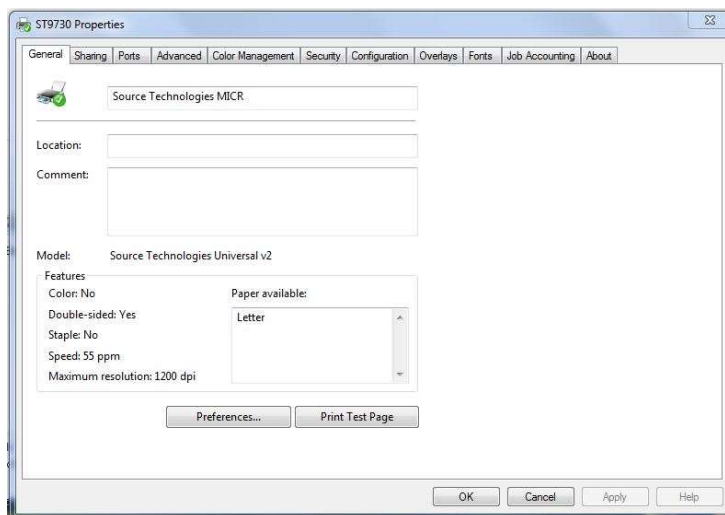
Font Name	Point Size	Font Sample
MICR E13B	8	<b>MICR E13B 8 pt.</b> 0 1 2 3 4 5 6 7 8 9 *
MICR CMC7	8	<b>MICR CMC7 8 pt.</b> 0 1 2 3 4 5 6 7 8 9 *
SECURE	36	<b>SECURE 36 pt.</b> 
ICR Secure	12	<b>ICR Secure 12 pt.</b> 0 1 2 3 4 5 6 7 8 9 *
MicroPrint	1	<b>MicroPrint 1pt.</b> 

**Note:** The fonts illustrated above may not match the size or appearance of those printed by the MICR printer. The characters are enhanced for illustration purposes only.

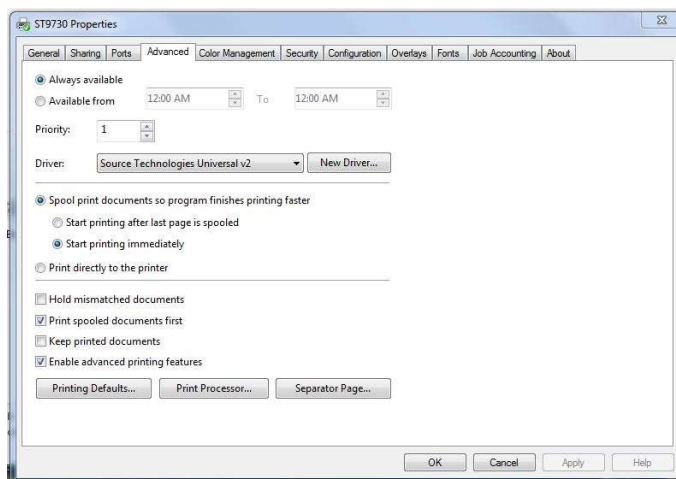
### 3. Configure the Driver to enable MICR Mode

To unlock the secure font resources located in the printer, the driver must be configured to send down a separator page before each print job. The separator page contains the necessary commands to unlock the resources.

1. Before proceeding, copy the files **MICR\_on.sep** and **MICR\_off.sep** from the **Config Files** folder on the driver CD or extracted PC location to **C:\WINDOWS\SYSTEM32** of the local machine.
2. *Select **Start** then select the **Devices and Printers** folder.*
3. Locate the printer you just installed and *right-click* the icon. Then *select **Printer Properties**.*
4. From the General tab, *type* a descriptive name for the printer, such as ST9920 MICR.

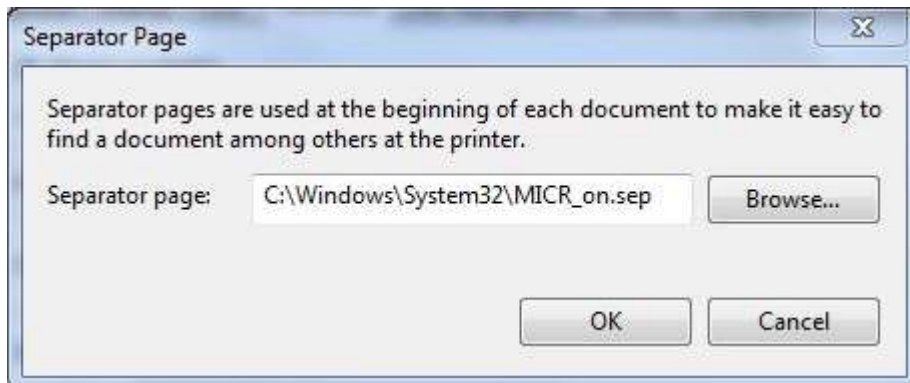


5. *Select the **Advanced** tab and then click the **Separator Page** button.*





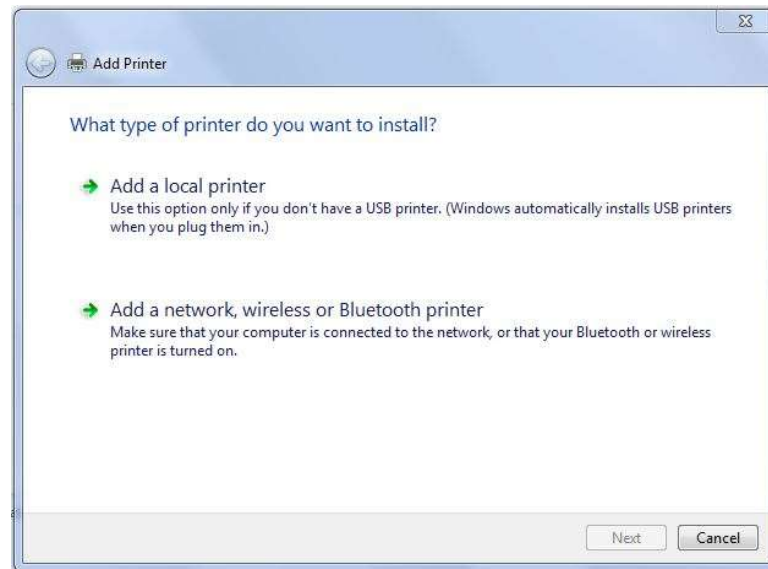
6. Select **Browse** and locate the **MICR\_on.sep** file in the **Windows\system32** folder. Select the file and click OK. Click OK again to complete the setting.



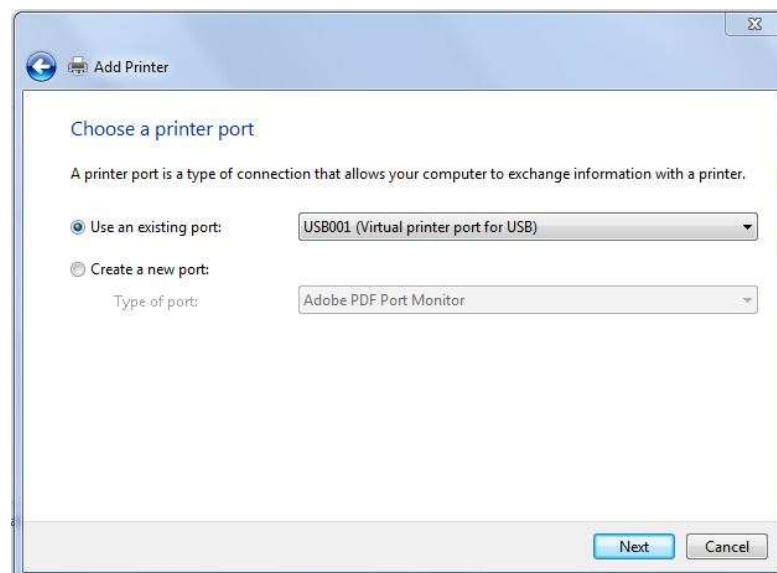
## 4. Configure Another Driver to Print Non-MICR Jobs

If you plan to use your printer for normal office printing (without MICR toner or fonts) a second instance of the printer driver must be added. Switching between MICR and non-MICR modes alters settings which are stored in the printer's NVRAM. It is recommended not to switch between these modes more than a few times per day to prolong the life of System Board NVRAM components.

1. In Devices and Printers, *select Add a Printer*.
2. *Select the Add a local printer option and then select Next.*

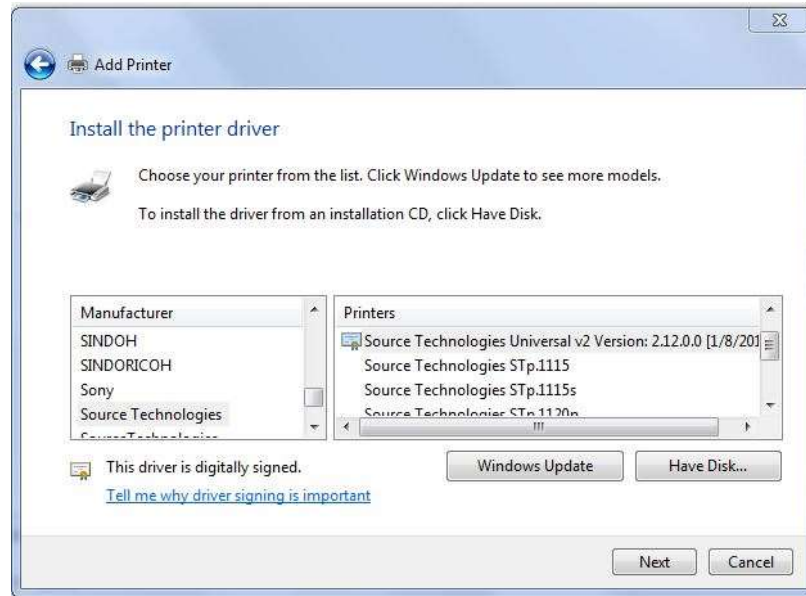


3. *Choose the port to which your MICR printer is connected and then select Next.*



4. Select the **Have Disk** button and then **Browse** to the location of the driver files at the following full path:

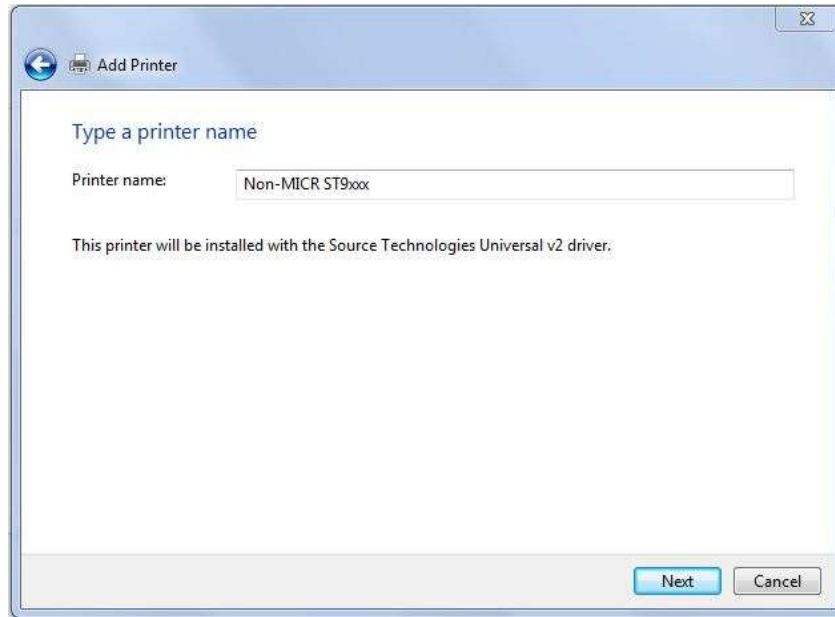
C:\PRINTER\PRINTER\_UNIVERSAL\_V2\_UD1\_PCL\DRIVERS\PRINT\GDI\



5. Select **Source Technologies** as the Manufacturer and **Source Technologies Universal v2** for the printer and *select Next*.
6. Select **Keep existing driver** and *select Next*.

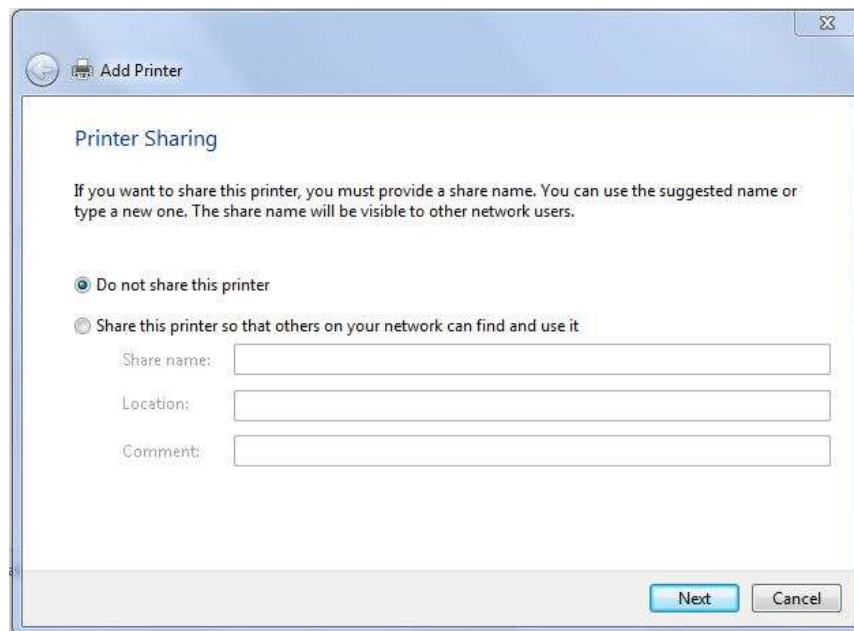


7. Enter a printer name to differentiate it from the MICR instance of the driver. **Select Next.**



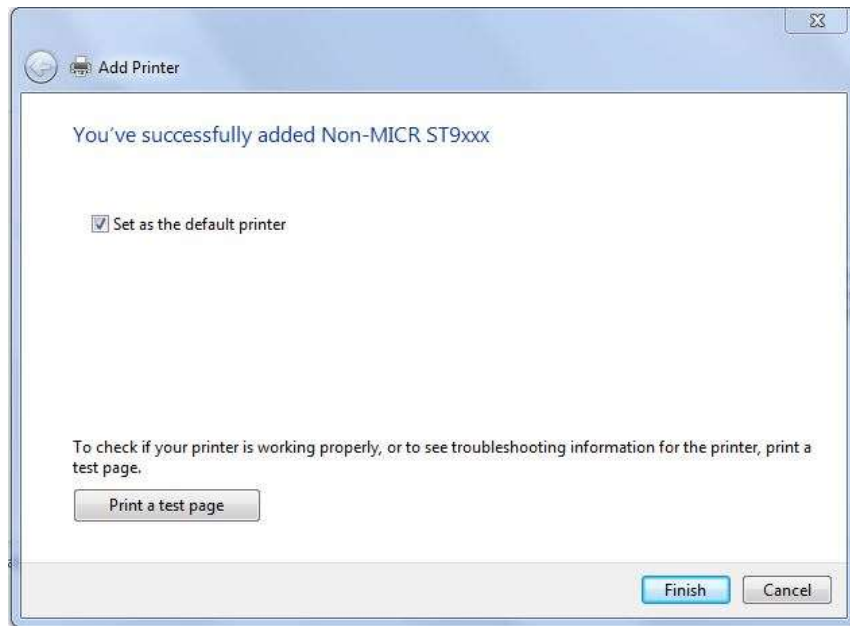
The screenshot shows the 'Add Printer' window with the title bar 'Add Printer'. The main heading is 'Type a printer name'. Below it, the 'Printer name:' label is followed by a text box containing 'Non-MICR ST9xxx'. A message states: 'This printer will be installed with the Source Technologies Universal v2 driver.' At the bottom right, there are 'Next' and 'Cancel' buttons.

8. If the printer will not be shared on a network, leave the "Do Not Share This Printer" button selected and **select Next.** Otherwise, **select** the "Share As" radio button and **enter** the name you wish to assign to this shared printer. The location of this printer and/or any associated comments connected with the printer may be entered at this time then **select Next..**



The screenshot shows the 'Add Printer' window with the title bar 'Add Printer'. The main heading is 'Printer Sharing'. A message states: 'If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.' There are two radio buttons: 'Do not share this printer' (which is selected) and 'Share this printer so that others on your network can find and use it'. Below the second radio button are three text boxes labeled 'Share name:', 'Location:', and 'Comment:'. At the bottom right, there are 'Next' and 'Cancel' buttons.

9. Finally decide if the printer is to be **Set at the default printer** and if you would like to print a test page to test the configuration of the printer.



10. *Select* **Finish** to complete the installation.
11. Follow the instructions in section 3 to add the **MICR\_off.sep** file to the newly installed driver. The fonts added in section 2 do not need to be added to the NON-MICR driver.
12. When all of the desired changes have been made, *select* **OK** to save the settings.

## 5. Printing Secure Font Resources from a Windows Application

First, set the MICR printer as the active printer – in most applications this is done by selecting Print from the File menu.

**Note:** This is not necessary if the MICR printer is the default printer.

Source Technologies' fonts should appear in the application's font formatting options. The fonts are named:

- ICR Secure 12 pt.
- MICR CMC7 8 pt.
- MicroPrint 1 pt.
- MICR E13B 8 pt.
- SECURE 36 pt.

**Note:** They will usually appear in alphabetical order among all other available fonts.

**Note:** The font point size must be selected as indicated in the font name. The font displayed on the screen will not resemble the printed font.

### Comparison of printer drivers configured as MICR and non-MICR

CONFIGURED FOR MICR	CONFIGURED FOR NON-MICR
<b>MICR_on.sep separator page used</b> Unlocks Secure Resources (fonts) Copy Count = 1 Jam Recovery = Off MICR Toner Only DEFAULT MICRJOB=ON	<b>MICR_off.sep separator page used</b> Locks Secure Resources (fonts) DEFAULT MICRJOB=OFF
<b>Secure Fonts enabled by 99xxFont.pcm</b> ICR Secure 12 pt. MICR CMC7 8 pt. MICR E13B 8 pt. MicroPrint 1 pt. SECURE 36 pt.	<b>No Secure Fonts</b>
<b>Universal Driver Options to set on the driver Install Options tab</b> Base printer Automatic duplex Multipurpose feeder Flash memory card (optional, if installed) Tray 2 (optional)	