

# 3100 Series Touch Screen POS Workstation

## INSTALLATION GUIDE: MAGNETIC STRIPE READER (MSR)

Congratulations on your purchase of UTC RETAIL's innovative 3100 Series Touch Screen POS Workstation with its Magnetic Stripe Reader (MSR). The 3100 Series MSR installs quickly and easily on the side of the main workstation unit.

This Installation Guide was prepared by UTC RETAIL for use by technical experts who assemble POS systems using 3100 Series products.

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### Safety Precautions for Installation

#### WARNING: Access to Internal Components



All access to internal components of the 3100 Series unit is restricted to Authorized Service Personnel only. Opening the case or service by anyone else will automatically void the warranty on this product.

#### CAUTION



Damage to the logic module components may occur if AC power is not removed from the product prior to attaching any accessories.

#### CAUTION



Once installed, **DO NOT** use the MSR as a carrying handle when moving the 3100 Series from location to location.

## Installing the Magnetic Stripe Reader

The 3100 Series Magnetic Stripe Reader (MSR) easily installs on the side of the LCD Touch Screen.

Install the Magnetic Stripe Reader (MSR) as follows:

### 1. Prepare the Machine

If Windows is running, shut it down as you would shutdown a PC. When the 3100 Series is off, unplug the power cord. Rotate the unit 90° clockwise so its left side is facing you. Lay the 3100 Series Workstation face down on a soft surface, being careful not to scratch the LCD monitor or its bezel.

### 2. Remove the MSR connector cover

On the rear, left side of the LCD display, remove the screws (2) holding the plastic cover. See picture right. Remove the plastic cover. There are 3 screw holes; see picture below.



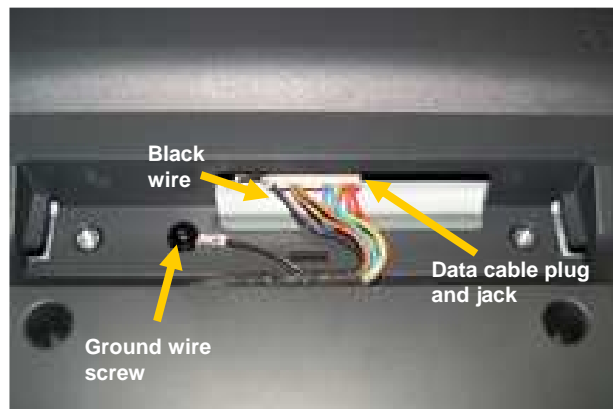
MSR cover plate removed



MSR jack cover plate

### 3. Connect the MSR

Lay the MSR, with its molded Swipe icon face down, on the table top next to the 3100 Series workstation. Using a screw from Step 2 above, attach the single black ground wire to the middle screw hole. Orient the metal screw terminal on this ground wire so it is inline with the 3 screw holes. The screw terminal cannot be left hanging over the edge of the MSR mounting location. The cable bundle with the white plug is the data cable. Holding the white plug so the black wire is to your left and the red wires to the right, plug the data cable into the data jack – see the photo on the right.

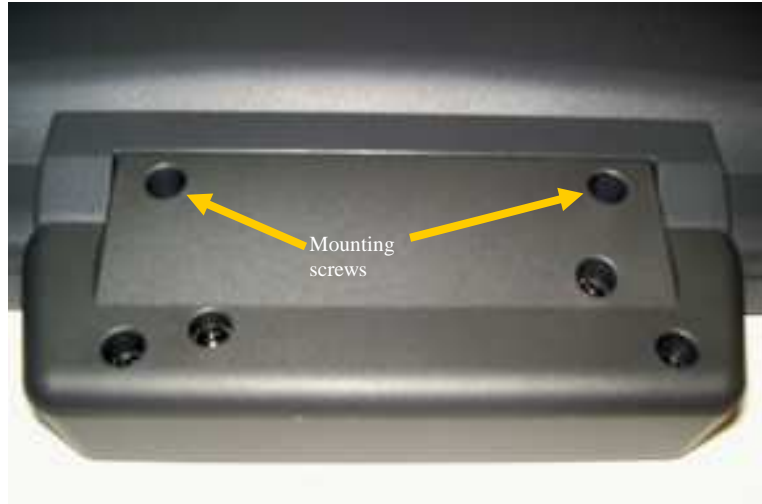


Align the top and bottom grooves in the MSR unit with the guide rails on the LCD bezel and slide it into position, making sure the ground wire and data cable assembly are not pinched against the bezel wall.

### 3. Insert and tighten screws

Insert and tighten the two black screws provided with the MSR unit to secure the MSR housing to LCD bezel.

Set the 3100 Series workstation upright, plug in the power cord and turn the machine on.



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## Installing the Magnetic Stripe Reader Software Drivers

The 3100 Series MSR sends data to your POS application via the serial interface and the MSR drivers. The drivers the MSR requires are dependent on your POS application. The MSR can operate as a keyboard-mode device or as an OPOS device. You cannot operate in keyboard-mode if you have OPOS drivers and software installed on a 3100 Series POS workstation. Drivers for the MSR can be downloaded from the UTC RETAIL website at [www.utcretail.com](http://www.utcretail.com). Look for "Drivers and Support" under the Hardware Solutions tab. The drivers and test software are also on the 3100 Series hard drive in the Drivers folder within the My Documents folder.

### MSR Keyboard-mode Driver

1. The MSR device **MUST** be installed onto the 3100 Series POS workstation prior to software driver *installation*. See "Installing the Magnetic Stripe Reader" above.
2. On the Windows Start Menu, under All Programs, start the MagSwipe Configuration Utility. If the program is missing, install it from the C:\Drivers\ID Tech MSR\MagSwipe Configuration Software folder .
3. Click the Select Reader Interface button. Under "First, Establish Communication...", click the blue button showing the interface having two cables spliced together (not the 9-Pin serial port cable nor the USB cable). The button will turn green and have a check mark. Under "Specify the comport, " PS/2 Keyboard port will be selected. Click Continue and you will hear the MSR's high pitched beep.
4. Click the Check Current Reader Settings button; the MSR will beep and a page will fill with data regarding the MSR's configuration. Click OK to close the window. The Change Basic Reader Settings and Change Advanced Reader Settings functions on the left side of the main program window allow you to customize the MSR's configuration. Do not modify the settings unless you are confident of your abilities. On the Utility's main window, click Exit to close the application.
5. Test the MSR by running the Windows Notepad application and swiping a credit card (up to 3-tracks) through the MSR. The icon on the front face of the reader shows you how to orient the card's magnetic stripe. The card data will appear in Notepad. Close Notepad to destroy the information. The MSR device is now ready to be used with your POS software.
6. The volume of the tone from the MSR when it is reading the card may be changed or eliminated from a selection on the Change Basic Reader Settings section of the MagSwipe Configuration Utility on your machine.

### MSR OPOS Driver and Demo Software

1. The MSR device **MUST** be installed onto the 3100 Series POS workstation unit prior to software driver *installation or removal*. See "Installing the Magnetic Stripe Reader" above.
2. The OPOS driver and the demonstration software are on the 3100 Series hard drive. Open the C:\Drivers\ID Tech MSR folder . There are two OPOS folders inside, one for the OPOS driver, the other for the OPOS Demo software.

3. To install the ID Tech PS/2 OPOS Driver, open the C:\Drivers\ID Tech MSR\OPOS Driver folder and run setup.exe. Click the Run or Next or Yes buttons as they appear, selecting the Typical installation and accepting the default Program folder suggested. When presented, click Finish and allow the 3100 Series workstation to restart.
4. After Windows restarts, install the ID Tech OPOS Demonstration Software. Step 2 above explains where the software is located. Open the ID Tech OPOS Demo Software folder and run setup.exe. Select the Next or Yes or Finish buttons whenever they appear.
5. On the Windows Start Menu , in the ID TECH OPOS folder, select ID TECH MSR OPOS Test Program to start the software. At the top of the page, in the drop down list box, select PS/2 KB:IDTECH\_MMII\_PS/2KB. On the left side of the main screen, click the Open button. The MSR will beep and some of the boxes will have data inserted into them.
6. Click the Claim button and the MSR will beep again. On the Control tab to the right, ensure the checkboxes for DeviceEnabled and DataEventEnabled are checked.
7. Back on the left of the window, select the CheckHealth... button. Select InterActive and OK. Swipe a credit card (up to 3-tracks) and the data will appear in the data boxes. Close this window.
8. Open Notepad and swipe your credit card. No data will appear. You cannot run the MSR as an OPOS device and in keyboard mode at the same time. The OPOS software is overriding the keyboard driver. Close Notepad and Exit the OPOS DEMO MagSwipe Software. To once again enable the MSR as a keyboard device, the OPOS DEMO MagSwipe Software must be removed using the Add or Remove Programs function located in the Control Panel. Once this software is uninstalled, card swipes will appear in Notepad or your keyboard-mode software.

## Service and Technical Support

Assistance and customer service are available from your dealer or authorized service provider. If your dealer or service provider cannot answer your questions or provide satisfactory service, call UTC RETAIL Technical Support. When calling for assistance or service information, please be ready to provide the model number and serial number of the Magnetic Stripe Reader. This information is found on a sticker located on the inside of the MSR device by its USB cable. If the MSR device needs to be returned to a repair facility, please use the original packing material and shipping carton.

For assistance, service, and warranty information, contact:

**UTC RETAIL**  
100 Rawson Road  
Victor, NY 14564  
Phone: 1.800.349.0546 or (585) 924.9500  
Fax: (585) 924.1434  
[www.utcretail.com](http://www.utcretail.com)