



TECHNICAL BULLETIN

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In this issue: Setting the SC7 Serial Controller to 8N1 Mode

Inside the SMART Pen Tray is an SC7 serial controller that facilitates communication between the SMART Board™ interactive whiteboard and the computer. This controller is set to 802 (8-bit, odd-parity with two stop bits) protocol when it ships from SMART Technologies.

In this bulletin, you'll learn how to switch an SC7 serial controller to the 8N1 (8-bit, no parity with one stop bit) protocol. However, these instructions do not apply to the SMART Sympodium™ interactive lectern because the Pen-Tool buttons on the lectern always use the 8N1 protocol.

To set the SC7 serial controller to the 8N1 protocol, complete the following steps:

- 1 Disconnect the SMART Board interactive whiteboard port (page 1).
- 2 Change the SC7 serial controller to 8N1 mode (page 1).
- 3 If the interactive whiteboard is connected to a serial port on the computer, reset the power to the SC7 serial controller (page 2). This step is unnecessary if the interactive whiteboard is connected to a USB port on the computer.
- 4 Reconnect the SMART Board interactive whiteboard port (page 4).

Step 1: Disconnect the SMART Board Interactive Whiteboard Port

To disconnect a serial port

- 1 Click the SMART Board icon  and select **Control Panel**.

The *SMART Board Control Panel* opens.

- 2 On the Boards tab, select the port you want to disconnect.
- 3 For Windows, click the **Disconnect** button.

OR

For Mac OS 8.5 through 9.x computers, click the **Remove** button.

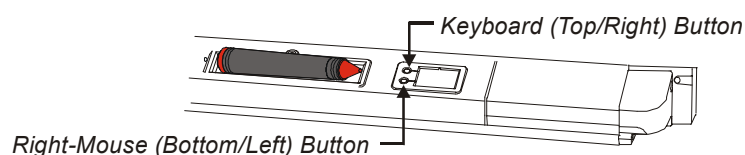
The Ready Light on the Pen Tray turns red, indicating that the Pen Tray is receiving power, but not communications.

To disconnect a USB port

Disconnect the SMART USB adapter cable from the computer.

Step 2: Change the SC7 Serial Controller to 8N1 Mode

- 1 Press and hold the **Right-Mouse** button on the Pen Tray with one hand, while you press the **Keyboard** button three times with the other hand. Don't press too quickly and pause briefly between each press. However, you should complete the three presses within a five-second period.



- 2 Repeat step 1 several times, varying the duration of the presses and pauses. Make sure you lift both hands between each set of presses.

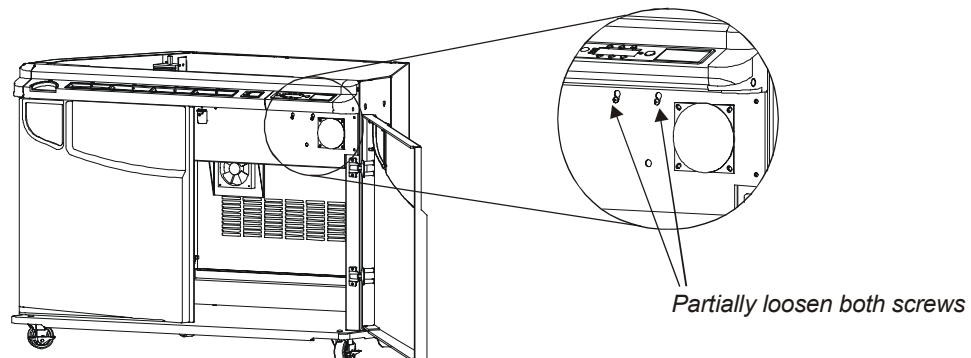
NOTE: You can also switch back to 802 mode. To do this, hold the **Keyboard** button while pressing the **Right-Mouse** button three times.

Step 3: Reset the Power to the SC7 Serial Controller

You'll need to disconnect the DB9 cable to reset the power to the SC7 serial controller because Pin 1 on the DB9F connector supplies this power.

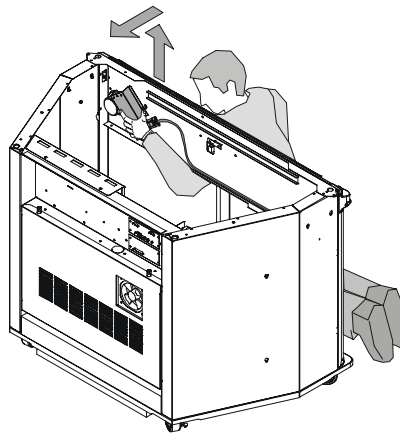
To reset the power on a Rear Projection SMART Board 3000i interactive whiteboard

- 1 Open the right-hand door of the cabinet. Using a Phillips® No. 2 screwdriver, partially loosen the two screws that attach the serial controller metal housing to the front panel. Two or three turns will suffice.

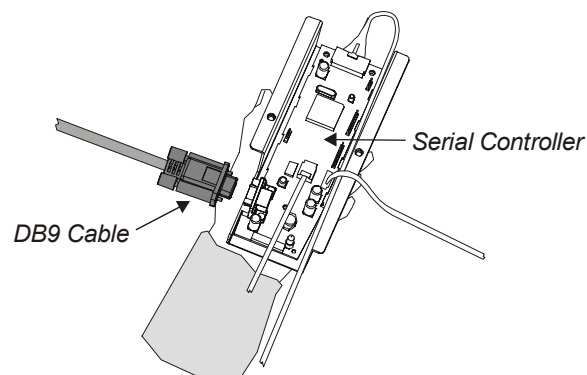


NOTE: Several figures show the top half of the cabinet removed for illustration purposes. However, you should leave the screen and the top half of the cabinet attached.

- 2 Reach inside the cabinet, behind the front panel. Lift the serial-controller metal housing up and then back to release it from the keyholes on the panel.



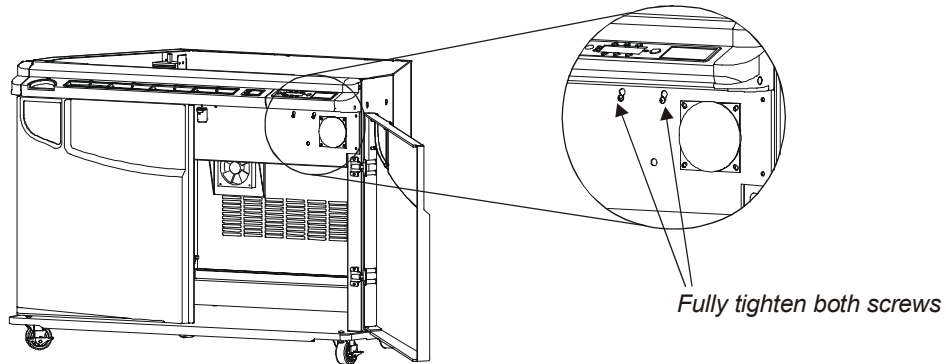
- 3 Without disconnecting any cables, carefully lower the serial controller through the opening in the front panel.
- 4 Disconnect the DB9 cable from the serial controller.



- 5 Wait a moment, and then reconnect the DB9 cable to the serial controller.

The Ready Light on the Pen Tray turns green, red, green again and then stays red. When the Ready Light stays red, the Pen Tray is receiving power, but not communications.

- 6 Reach inside the cabinet, and attach the serial-controller metal housing to the inside of the front panel. To do this, fit the two partially inserted screws on the metal housing into the keyholes on the panel.
- 7 Fully tighten these two screws.

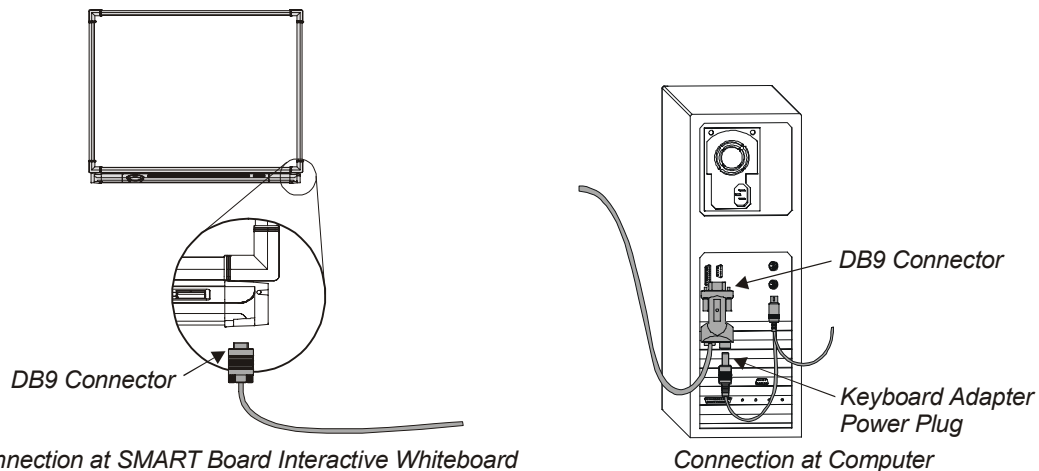


To reset the power on a SMART Board interactive whiteboard that is not a 3000i

- 1 If your interactive whiteboard is connected to a USB port on the computer, skip this step and reconnect the port as explained on page 4.

OR

If your interactive whiteboard is connected to a serial port on the computer, disconnect the SMART serial cable at the Pen Tray or your computer, whichever is more convenient. If you decide to disconnect the serial cable at your computer, you may prefer to unplug the keyboard adapter power plug rather than the DB9 connector.




- 2 Wait a moment and then reconnect the cable.


The Ready Light on the Pen Tray turns green, red, green again and then stays red. When the Ready Light stays red, the Pen Tray is receiving power, but not communications.

Step 4: Reconnect the SMART Board Interactive Whiteboard Port

To reconnect a serial port (Windows operating system)

- 1 Click the SMART Board icon  and select **Control Panel**.
The *SMART Board Control Panel* opens.
- 2 On the Boards tab, click the **Connect** button.
The *Select COM Port* dialog box opens.
- 3 Under Manual, select the correct COM port from the list and click the **Select** button.
OR
Click the **Detect SMART Hardware** button to let the software find the correct COM port.

To reconnect a serial port (Macintosh computers)

- 1 Click the SMART Board icon  and select **Control Panel**.
The *SMART Board Control Panel* opens.
- 2 On the Boards tab, click the **Select** button.
The *Pick a Port* dialog box opens.
- 3 Select the port from the **Port List** and click **OK**, or click the **Auto Detect** button to let the software search for a free port.

To reconnect a USB port

Insert the SMART USB adapter cable into the USB port on your computer.

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