Mortara XScribe Versions 3.xx and 5.xx Tango M2 Interface Notes

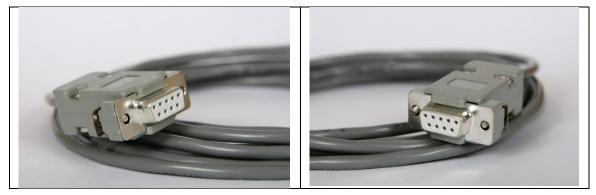
To setup Tango[®] M2 with the XScribe[™] cardiac stress system, simply follow the directions below.

1. Verify Correct RS-232 and ECG Trigger Cables

- **RS-232 Cable** used to communicate with the XScribe. This cable enables the XScribe to prompt Tango M2 when it needs a BP measurement, and allows the Tango M2 BP reading to be transferred to the XScribe display and reports.
 - SunTech[®] Part Number = 91-0013-01
 - Connection Ends:

XScribe Connection 9 pin female

Tango M2 Connection 9 pin female

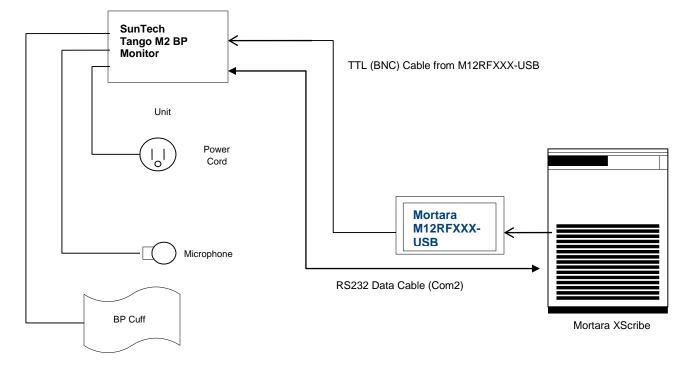


- ECG Trigger Cable provides the ECG signal from the XScribe to the Tango M2.
 - SunTech Part Number = 91-0011-01
 - Connection Ends:

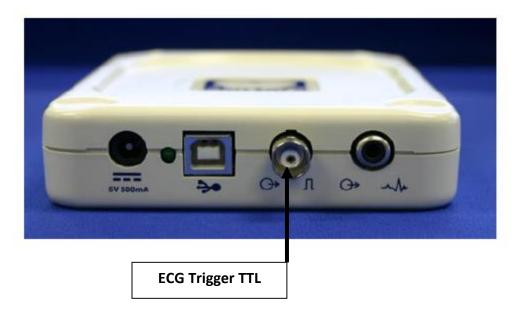
XScribe Connection BNC male Tango M2 Connection BNC male



RS-232 Connection Part # 91-0013-01 ECG Trigger Connection Part # 91-0011-01



Mortara USB Interface M12RFXXX-USB



2. Connect the RS-232 Cable

From: the RS-232 connection on the rear panel of the Tango M2.

To: the COM 2 port on the back of the XScribe. If a second serial port is not available, a PC board to provide this 2nd serial port may be required (contact Mortara for details).

3. Connect the ECG Trigger Cable

- From: the BNC External ECG connection on the rear panel of the Tango M2.
- To: the TTL output connection on the back of the Mortara M12RFXXX-USB module.
 - *Note If this port is already in use a BNC Splitter may be needed, SunTech Part Number = 64-0080-00.



4. Tango M2 Monitor Setup

- a. When the operating screen is displayed, press the **SELECT** button once. This will bring up the **MAIN MENU** screen.
- b. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
- c. Using the UP or DOWN arrows, highlight **STRESS SYSTEM** and press the **SELECT** button.
- d. Using the UP or DOWN arrows, scroll through the list until **X-Scribe** is highlighted and press the **SELECT** button to confirm the choice.
- e. Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

5. X-Scribe V3.xx System Setup

- a. Highlight and click on **Settings** from the X-Scribe main menu. The Configuration Settings window will be displayed.
- b. In the *Exercise Options* Tab, click on the **NIBP** drop down menu.
- c. Select SunTech Tango.
- d. Highlight and click on the Save Profile button.
- e. Select Yes when prompted by "This profile will be overwritten Do you want to continue?"
- f. Repeat steps **b** through **e** for each Profile that you wish to utilize the SunTech Tango M2 automatic BP monitor.

6. XScribe V5.xx System Setup

- g. Select the **System Configuration** icon from the XScribe main menu. The System Configuration window will be displayed.
- h. Select the **Modality Settings** button and then the **Miscellaneous** tab to open dialog allowing you to click on the **Automatic** radio button. Click on **Save Changes** to set automatic BP as default for all stress exams, and then **Exit**.
- i. After starting a stress test, select Local Conf/F2 in the observation phase and click on the BP Equipment drop down list to select SunTech BP.
- **Note:** The XScribe Blood pressure entry control for Exercise and Recovery phases will now automatically initiate and acquire BP readings from the SunTech Tango BP Monitor.

Mortara Instrument, Inc. Technical Support - (888) MORTARA

FAQs for Tango M2

- Q. The Tango M2 displays a Status Message. What does it mean and what do I do?
- A. See the eLibrary within your Tango M2 for quick troubleshooting tips. You can find the eLibrary under the Main Menu; select Monitor Setup →E-Library →Status Messages. You can also look in the Tango M2 User Manual under the Status Messages & Alarms section for details on each Status Message and solution.
- Q. The Tango M2 monitor returns a result of 0/0 after blood pressure (BP) measurements. What do I need to do to get a BP reading?
- **A.** There are certain noisy conditions where the Tango M2 cannot accurately measure BP. When the Tango M2 encounters these situations, it returns a reading of 0/0. Microphone placement is critical for reliable operation of the Tango M2; there are many places to find cuff placement help.
 - a. See the eLibrary within your Tango M2 for quick cuff placement tutorials. You can find the eLibrary under the Main Menu; select Monitor Setup \rightarrow E-Library \rightarrow Tutorials.
 - b. Look in the Tango M2 User Manual under the *Using Tango M2 during a Stress Test* section for details on each type of cuff; the Orbit-K and the Single Patient Use (SPU) kit.
 - c. Follow the instructions in the **Cuff Tutorial** (located on the SunTech Medical website under Support \rightarrow Customer Technical Support \rightarrow Video Tutorials) for correct microphone placement.

- Q. Can I use a heart rate or blood pressure simulator to test whether the Tango M2 is working correctly with my stress system?
- **A.** You cannot use a heart rate or blood pressure simulator to test whether the Tango M2 is working with your stress system. The Tango M2 monitor requires that the ECG signal and the Korotkoff sounds, collected by the microphone in the cuff, originate from the same source, meaning the patient.

Q. How can I adjust the brightness of the Tango M2 display?

- **A.** You can adjust the contrast of the Tango M2 display by following these steps:
 - 1. When the operating screen is displayed, press the **SELECT** button once. This will bring up the **Main Menu** screen.
 - 2. Using the UP or DOWN arrows, highlight **Monitor Setup** and press the **SELECT** button.
 - 3. Using the UP or DOWN arrows, highlight **Brightness** and press the **SELECT** button.
 - 4. Using the UP or DOWN arrows, modify the contrast of the screen. When you are finished, and press the **SELECT** button to confirm the choice.
 - 5. Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

Q. How can I get MAP on my Tango M2?

A. Register your Tango M2 Monitor online or through mail to receive MAP as a function on your Tango M2 monitor. Please note that due to FDA Regulations MAP is not available to the United States market.

On the web go to SunTechMed.com \rightarrow Support \rightarrow Sales Support \rightarrow Product Registration

Q. How do I clean the Orbit-K cuff after a stress test?

- **A.** You can do either of the following:
 - 1. Use a medical grade mild disinfectant wipe on the cuff or spray a cleaning solution onto a cloth and wipe the cuff. Afterwards, lay flat or line dry.
 - 2. Remove the bladder and microphone from the outer shell of the Orbit-K cuff. Machine wash the shell in warm water with a mild detergent (50-140°F or 10-60°C). Lay flat or line dry the cuff. Do not place the cuff in a dryer.
- Q. My Tango M2 displays a message, "Please VERIFY CALIBRATION" or "Equipment Maintenance and Calibration Required." What do I do?
- A. Verification of Pressure Calibration is required every year to maintain the accuracy of the Tango M2's BP readings. You will need to contact your local SunTech Medical Service Center for help. In addition, the following items will be needed to verify calibration.

Equipment Required:

- 1. Calibrated electronic manometer or equivalent.
- 2. 500mL volume or the Orbit-K Adult Plus cuff wrapped around something that will not break or crush (no glass).
- 3. Hand Inflation Bulb with bleed valve.
- 4. Tubing, Tee pieces, and miscellaneous connectors or you can order the T-Tube Kit (SunTech Part # 98-0030-00).

Service Centers:

For customers in the Americas SunTech Medical, Inc. 507 Airport Boulevard Suite 117 Morrisville, NC 27560-8200 USA Phone: +1.919.654.2300 +1.800.421.8626 (toll free within US) Fax: +1.919.654.2301 Email: CustomerService@SunTechMed.com

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