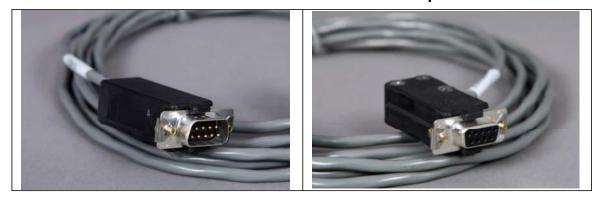
Nihon Kohden STS-2100 Tango+ Interface Notes

To setup Tango+ with the STS-2100 stress system, simply follow the directions below.

1. Verify Correct RS-232 and ECG Trigger Cables

- **RS-232 Cable** used to communicate with the STS-2100. This cable enables the STS-2100 to prompt Tango+ when it needs a BP measurement, and allows the Tango+ BP reading to be transferred to the STS-2100 display and reports.
 - SunTech Part Number = 91-0061-00
 - Connection Ends:

STS-2100 Connection 9 pin male Tango+ Connection 9 pin female

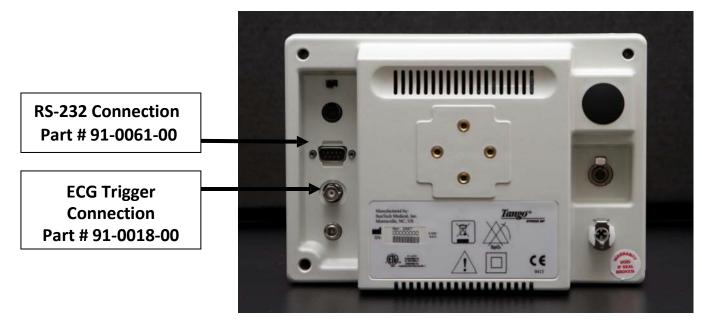


- ECG Trigger Cable provides the ECG signal from the STS-2100 to the Tango+.
 - SunTech Part Number = 91-0018-00
 - Connection Ends:

STS-2100 Connection 1/8" phono plug Tango+ Connection BNC male



Tango+ Monitor



2. Connect the RS-232 Cable

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

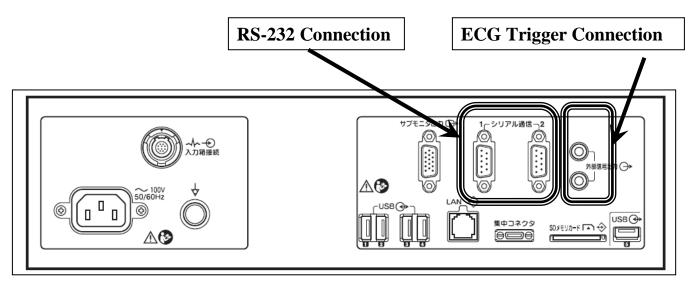
To: the SIO1 or SIO2 connector on the back of the STS-2100.

3. Connect the ECG Trigger Cable

From: the BNC External ECG connection on the rear panel of the Tango+.

To: the $1/8^{th}$ phono plug connection on the back of the STS-2100.

Back Panel of STS-2100



4. Tango+ Monitor Setup

- a. When the operating screen is displayed, press the **SELECT** button 2 times. 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 **STS-2100** 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. STS-2100 System Setup

- a. From the main screen, touch **MENU** at the right side.
- b. Touch System tab on Main Menu screen.
- c. Touch **Common Settings**.
- d. Input password, if requested.
- e. Touch Port Settings at the left side.
- f. Choose **BP monitor** from the **Device** of **SIO1** or **SIO2** which connected Tango.
- g. Choose **Tango** from the **Type(Protocol)** of **SIO1** or **SIO2** which connected Tango.
- h. Touch **Register** at the lower right corner.
- i. Touch Test menu Settings.
- j. Touch any Test menu used with Tango.
- k. Select **Settings** on the popup menu.
- I. Touch **Default Settings** at the left side.
- m. Choose ON from Auto BP monitor connection.
- n. Touch **Register** at the lower right corner.
- o. Touch Protocol Settings.
- p. Touch **EROGOMETER** or **TREADMILL**.
- q. Touch any Protocol used with TangoM2.
- r. Select **Settings** on the popup menu.
- s. Touch **BP measurement** at the left side.
- t. Select **ON** from **BP measurement interval** of Exercise.
- u. Select **ON** from **BP measurement interval** of Recovery.
- v. Touch **Register** at the lower right corner.
- w. Touch **Back to Test** at the lower right corner.

FAQs for Tango+

- Q. The Tango+ displays a status message. What does it mean and what do I do?
- **A.** See the Quick Set-Up guide (that is attached to your Tango+) or the Troubleshooting section in your User's Guide for details on the Status Message and solution.
- Q. The Tango+ monitor returns results of 0/0 after blood pressure measurements. What do I need to do to get a BP reading?
- A. There are certain noisy conditions where the Tango+ cannot accurately measure BP. When the Tango+ encounters these situations, it returns a reading of 0/0. Placement of the microphone attached to the cuff is critical for reliable operation of the Tango+. Follow the instructions in the Cuff Tutorial (located on the SunTech Medical website under Products: Tango+) for correct microphone placement. Follow steps 1 and 2 in Conducting the Stress Test in the User's Guide to provide the best conditions to obtain a measurement.
- Q. Can I use a heart rate or blood pressure simulator to test whether the Tango+ is working correctly with my stress system?
- **A.** You cannot use a heart rate or blood pressure simulator to test whether the Tango+ is working with your stress system. The Tango+ monitor quires that the ECG signal and the Korotkoff sounds, collected by the microphone in the cuff, originate from the same source, meaning the patient.

Q. I cannot clearly see the Tango+ display. How do I fix this?

- **A.** If you cannot clearly read Tango+, you can adjust the contrast of the display by following these steps:
 - 1. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
 - 2. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
 - 3. Using the UP or DOWN arrows, highlight **CONTRAST** 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. My Tango+ displays a message, "Please VERIFY CALIBRATION" or "Equipment Maintenance and Calibration Required." What do I do?
- A. Verification of Pressure Calibration

Equipment Required:

- 1. Calibrated electronic manometer or equivalent.
- 2. 500 mL volume of the Orbit-K Adult Plus cuff wrapped around something that wil 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).

Procedure:

- 5. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
- 6. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
- 7. Using the UP or DOWN arrows, highlight **VERIFY CALIBRATION** and press the **SELECT** button. The monitor will close its bleed valves and will display on its screen the pressure applied to the patient hose connector.
- 8. Verify the Tango+ calibration by manually inflating and checking the manometer against the pressure reading on the Tango+ display.
- 9. Once the calibration has been completed, use the UP or DOWN arrows to select **EXIT** twice and return to the operating screen.