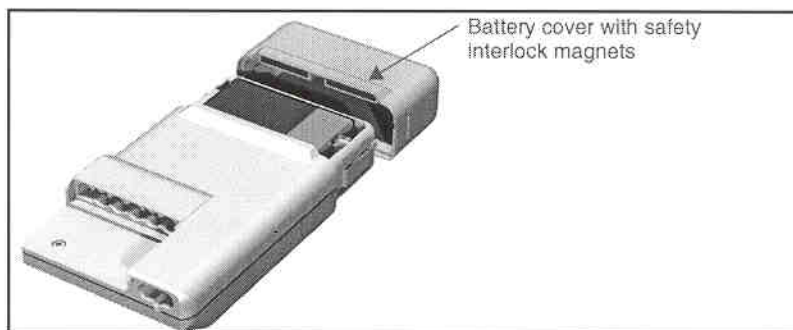


Replacing the Battery

1. Remove the transmitter battery cover.



2. Insert a fully charged battery from the back of the transmitter. The transmitter performs a self-test (page 2-4).
3. Slide the battery cover back on and snap into place.



CAUTION: If the transmitter will be worn while the patient is showering, wrap the transmitter in plastic to prevent water from getting inside the battery compartment. Also, cover the transmitter's **Programming Port** connector with the **Protective Cap** before exposing it to water to prevent any damage.



NOTE: If the transmitter will not be in use for an extended time, remove the battery.

Transmitter Setup

The **Transmitter Setup** screen provides transmitter status information and permits configuration and programming functions for *local* telemetry channels.

The **Transmitter Setup** Screen is slightly different for 5-wire and 6-wire transmitters.

Accessing the Transmitter Setup Screen

1. Open the patient's **BEDVIEW** screen.
2. Click on **Setup**.
3. Click on **Telemetry**.



NOTE: This button is ghosted unless the Telemetry option is unlocked (page 19-8).

4. Click on **Transmitter Setup**.

Transmitter Setup Screen (6-Wire Transmitter)

The screenshot shows the 'Transmitter Setup' screen. At the top, there is an 'Exit' button and the title 'Transmitter Setup'. Below this is a section titled 'Received Transmitter Status' which displays 'ID: 100', 'ECG Lead Wires: 6', 'Battery' level with a gauge, '9.2 V', '0.0', and '-50.1 dBm'. Below this is a section titled 'ECG Lead Prep (Kohm)' with input fields for 'RA', 'LA', 'LL', 'C', and 'C+'. The values shown are 0, 0, 2916, 2916, and 2083 respectively. Below these fields is an 'Update Status' button. At the bottom, there are two toggle switches: 'Transmitter Record: ON' and 'Transmitter Staff Alert: ON'. Below these are buttons for 'Program Transmitter', 'Accept', and 'Undo'.

A note on the right side of the screen states: 'A transmitter programmed in 6-wire mode displays 5 ECG Lead Prep indicators.' and '5-Wire transmitter screen has 4 ECG Lead Prep indicators: RA, LA, LL, and C.'

Note: The RL lead prep is not displayed as this lead wire is a reference lead only.

About the Transmitter

Received Transmitter Status Information

Received Transmitter Status section of Transmitter Setup Menu

Information	Description
ID	The transmitter ID cannot be changed; it is configured by the Biomed during installation.
ECG Lead Wires	3-, 5-, or 6-wire mode
Battery	A bar graph showing the transmitter battery charge and current voltage. The color of the graph also indicates the status of the remaining battery charge.
Radio frequency signal strength	The color of the bar graph indicates the average received radio frequency signal strength. The number and labels of Bar Graphs vary for 3-, 5-, and 6-wire transmitters.
ECG Lead Prep	The color of the bar graph indicates the quality of lead prep and that effect on the ECG signal.
Update Status	Allows you to update the screen with the latest status information.

Transmitter Setup Menu Functions

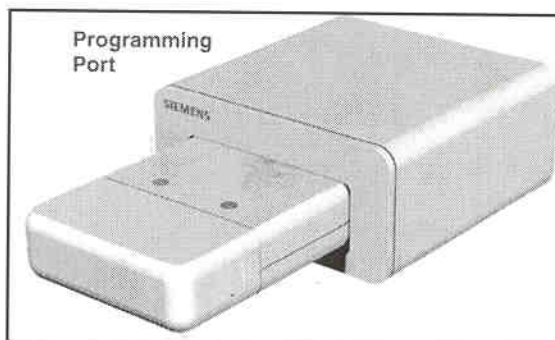
Customizing the Transmitter Buttons



NOTE: You can only activate/deactivate the transmitter buttons for an individual patient if 'Per Patient' mode was selected during setup (see page 19-21).

1. Open the **Transmitter Setup** screen (page 2-8).
2. Click on the **On/Off** toggle button next to **Transmitter Record:**
and/or
Click on the **On/Off** toggle button next to **Transmitter Staff Alert:**
3. Click on **Accept** to save changes or **Undo** to keep previous settings.

Programming the Transmitter



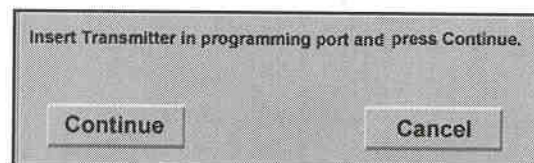
The **Programming Port** can be used to tune the transmitter to an operating frequency or activate a spare transmitter.

Transmitter reprogramming is required in the following situations:

- The transmitter is changed to a selected receiver channel's operating frequency.
- The monitoring lead mode is changed.
- The transmitter was repaired or corrupted.

To program (or reprogram) the transmitter:

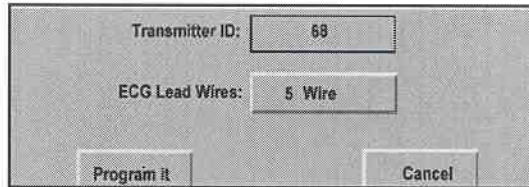
1. Open the **Transmitter Setup** menu (page 2-8).
2. Click on **Program Transmitter**.
3. Put the transmitter into the **Programming Port**. A popup window displays.



About the Transmitter

- Click on **Continue** in the popup. The message appears, Reading Transmitter Data...

A popup window displays the current settings for **Transmitter ID** and **ECG Lead Wires**



The screenshot shows a gray rectangular popup window. At the top, it says "Transmitter ID:" followed by a text box containing the number "69". Below that, it says "ECG Lead Wires:" followed by a text box containing "5 Wire". At the bottom left is a button labeled "Program It", and at the bottom right is a button labeled "Cancel".

NOTE: If communication with the transmitter fails, the message appears, Transmitter Read Error. No transmitter in programming port. Do you wish to retry? If the message continues after retrying, contact your Biomed.

- Select desired setting for **ECG Lead Wires:** and click on **Program it**.

The message appears, Programming transmitter...Warning, Do Not Remove Transmitter from Service Port During Programming.

- After the message disappears remove the transmitter from the **Programming Port**.

NOTE: If the data transfer fails, the message Setup Data Write Error, try again displays in the **Main Screen** status area. If the message continues after retrying, contact your Biomed.

About the Transmitter

Attaching the Transmitter to the Patient

1. Verify that the transmitter is programmed for the appropriate monitoring mode.
2. Apply electrodes to patient (Appendix A, 'Patient Preparation').
3. Connect the lead wire set (3-, 5-, or 6-wire) to the transmitter.
4. Attach the lead wires to the electrodes.
5. Admit the patient to the MULTIVIEW WORKSTATION channel for which the transmitter is programmed (Chapter 7).

Transmitter Messages

Programming Messages

Message	Description	Action
No Transmitter in Programming Port	The MULTIVIEW WORKSTATION cannot communicate with the transmitter.	• Check the programming port connection to the MULTIVIEW WORKSTATION CPU. • Check the transmitter battery and make sure the transmitter is fully inserted into the programming port.
Programming transmitter...Warning, Do Not Remove Transmitter from Service Port During Programming	The new settings are written to the transmitter.	• Wait until the message disappears.
Setup Data Write Error, try again	The transmitter cannot accept the new settings (could be a faulty transmitter).	• Program the transmitter again. • Contact your Biomed if setup fails again.

About the Transmitter

Status Messages

Alarm Message		Grade	Description	Action
Parameter Area	Status Area			
HR: <value> ARR:<value> PVC/min: <value> SpO ₂ : <value> PLS: <value> STx: <value>	staff alert	SER	The transmitter staff alert button was pressed.	Check the patient. Note: This message requires acknowledgement.
HR: *N* ARR:<blank> PVC/min: <blank> SpO ₂ : <blank> PLS: <blank> STx: <blank>	transmitter: no signal	ADV	The receiver cannot detect the transmitter.	- Make sure patient is not outside telemetry antenna range. - Check cable connections. - Replace transmitter battery.
HR: *I* ARR:<blank> PVC/min: <blank> SpO ₂ : <blank> PLS: <blank> STx: <blank>	transmitter ID incorrect	ADV	The transmitter ID and programmed ID do not match.	- Reprogram transmitter with correct ID. - Make sure that transmitters do not have duplicate IDs.
HR: <blank> ARR:<blank> PVC/min: <blank> SpO ₂ : <blank> PLS: <blank> STx: <blank>	TRANSMITTER LOW BATTERY	ADV	Transmitter's battery charge is low.	Replace transmitter battery. Note: Message remains until battery is replaced.

About the Transmitter