

Zoll R Series Maintenance Test Supplemental Document

For use with BC Biomedical DA-2006P Defibrillator Analyzer

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This document is to be used as a guide when using the DA-2006P to perform the Preventive Maintenance procedure for a Zoll R-Series defibrillator. This guide is based on the Rev K of the R-Series service manual. There are several steps in the PM procedure that do not require a defibrillator analyzer, such as the physical inspections in section 1.0 of the service manual. The heading of each step below corresponds to a specific test in the service manual.

2.3

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **120 BPM**. Press **Enter**
- Press **Exit**.

4.19

* The DA-2006p is equipped with a **Charge Timer** as a substitute for a manual stopwatch. If you would like to use this option, follow these steps.

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- After the defibrillator is set to 200J, press the **Start Charge Timer** soft key on the DA-2006P. A 5 second countdown begins. At the end of the countdown, press the **CHARGE** button the defibrillator. As soon as the **SHOCK** button illuminates, discharge the defibrillator into the DA-2006P. The charge time will display under the **Test Results** section.

7.1

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **120 BPM**. Press **Enter**
- Press **Exit**.

9.2

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Performance Waveforms**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Waveform**. Press **Choices**
- Use the arrow keys to highlight **Sine Wave 60 Hz**. Press **Enter**
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Amplitude**. Press **Choices**
- Use the arrow keys to highlight **Lead I 0.35mV Lead II 0.5mV**. Press **Enter**
- Press **Exit**.

10.1

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **120 BPM**. Press **Enter**
- Press **Exit**.

10.19

- Press **ECG Waveforms**
- Use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **160 BPM**. Press **Enter**
- Press **Exit**.

12.0

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **60 BPM**. Press **Enter**
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Amplitude**. Press **Choices**
- Use the arrow keys to highlight **Lead I 0.70mV Lead II 1.0mV**. Press **Enter**
- Press **Exit**.

12.2

- Follow the directions outlined in 12.0 above. The DA-2006P is in **Cardioversion Mode**. Once a defibrillator is discharged into the DA-2006P, there will be a line item in the **Test Results** section of the DA-2006P that shows the **Delay**.

13.0

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight a selection between **60 BPM** and **120 BPM** according to the R series Service Manual. Press **Enter**
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Amplitude**. Press **Choices**
- Use the arrow keys to highlight **Lead I 0.70mV Lead II 1.0mV**. Press **Enter**
- Press **Exit**.

13.3

- Follow the directions outlined in 13.0 above. The DA-2006P is in **Cardioversion Mode**. Once a defibrillator is discharged into the DA-2006P, there will be a line item in the **Test Results** section of the DA-2006P that shows the **Delay**.

14.2

- Press **RANGE** until the DA-2006P shows **Low Range 50J Max** under configuration

14.8

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration

14.14

* The DA-2006p is equipped with a **Charge Timer** as a substitute for a manual stopwatch. If you would like to use this option, follow these steps.

- After the defibrillator is set to 200J, press the **Start Charge Timer** soft key on the DA-2006P. A 5 second countdown begins. At the end of the countdown, press the CHARGE button the defibrillator. As soon as the SHOCK button illuminates, discharge the defibrillator into the DA-2006P. The charge time will display under the **Test Results** section.

16.2

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration

- Press **ECG Waveforms**

- With **ECG Group** highlighted, press **Choices**

- Use the arrow keys to highlight **Arrhythmias**. Press **Enter**.

- In the **ECG Configuration Screen**, use the arrow keys to highlight **Waveform**. Press **Choices**

- Use the arrow keys to highlight **Ventricular Fibrillation**. Press **Enter**

- Press **Exit**.

16.4

- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.

17.0

- Press **RANGE** until the DA-2006P shows **Pace: DO NOT DEFIB** under configuration

* There are two options for connecting the Pacer cables:

- (1) the Pacer Input Variable load connectors
- (2) the 50 Ω fixed load at the Defibrillator plates.

If option 1 is used:

- Press **Pace Mode Setup** soft key
- Use the arrow keys to highlight **Load**. Press **Choices**
- Use the arrow keys to scroll through the list of 50 ohm – 2300 ohm – open. Press **Enter**

If option 2 is used:

- Press **Pace Mode Setup** soft key
- Use the arrow keys to highlight **Load**. Press **Choices**
- Use the arrow keys to scroll to the top of the list and highlight **Defib Paddles**. Press **Enter**.

17.9

- Press **RANGE** until the DA-2006P shows **High Range 1000J Max** under configuration
- Press **ECG Waveforms**
- With **ECG Group** highlighted, press **Choices**
- Use the arrow keys to highlight **Normal Sinus Rhythm**. Press **Enter**.
- In the **ECG Configuration Screen**, use the arrow keys to highlight **Heart Rate**. Press **Choices**
- Use the arrow keys to highlight **60 BPM**. Press **Enter**
- Press **Exit**.