

Secure the RV Lead First When Connecting Leads to the Header of a CRT Device

SUMMARY

It is important to follow a specific order when connecting lead terminals to the header of a cardiac resynchronization therapy (CRT) device. Upon programming a CRT device out of Ship or Storage mode (for CRT-Ps and CRT-Ds respectively), the RV port immediately begins sensing. To prevent detection of environmental noise, the RV port should be filled as quickly as possible with the terminal end of a positioned RV lead. This establishes timing cycles that result in appropriate sensing and pacing in the left ventricle (LV), right ventricle (RV) or both ventricles (biventricular - BiV). In addition, for CRT-Ds, prompt RV lead connection prevents noise/oversensing that may cause inappropriate shocks.

To establish proper cardiac resynchronization therapy pacing and, for CRT-Ds, to ensure appropriate tachyarrhythmia detection and therapy, always insert and connect lead terminals to a CRT device header in the order recommended in Table 1:

Table 1. Order for Inserting and Securing Leads into Boston Scientific CRT Devices

Step 1	<p>Insert and secure the RV pace/sense lead terminal into the RV IS-1 P/S lead port</p> <ul style="list-style-type: none"> • <u>Quickly establishes RV pacing; especially important for pacemaker-dependent patients.</u> • Establishes proper timing sequences for RV, LV or CRT pacing. • RV activity impacts pacing therapy timing, regardless of programmed mode (even LV only). • Enables detection and treatment of tachyarrhythmias (CRT-Ds). • Minimizes oversensing associated with noise detection, which can occur when an activated device does not have an attached lead.
Step 2	<p>Insert and secure the atrial pace/sense lead terminal into the A (atrial) IS-1 P/S lead port</p> <ul style="list-style-type: none"> • Establishes synchrony between upper and lower chambers.
Step 3	<p>Insert and secure the LV pace/sense lead terminal in the LV-1 (or IS-1) P/S lead port</p> <ul style="list-style-type: none"> • Establishes synchrony between right and left ventricles.
Step 4	<p>For CRT-Ds, insert and secure the high voltage defibrillating lead terminal pins</p> <ul style="list-style-type: none"> • Anode (+, proximal) into the pulse generator's (+) Defib lead port. • Cathode (-, distal) in the (-) Defib lead port. • Enables delivery of shock therapy.

CRM PRODUCTS REFERENCED

All Boston Scientific CRT-Ps and CRT-Ds

Products referenced herein may not be approved in all geographies. For comprehensive information on device operation, reference the appropriate product labeling.

CRT-D: Cardiac Resynchronization Therapy Defibrillator
 CRT-P: Cardiac Resynchronization Therapy Pacemaker

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