A Closer Look

SUMMARY
Boston Scientific pacemakers, defibrillators, and S-ICDs include an identifier in the header of the pulse generator that is visible via X-ray or fluoroscopy. This identifier is useful in determining the device manufacturer and model, allowing a clinician to determine the appropriate programmer to communicate with the device. This article includes a reference table of Boston Scientific device identifiers, and includes images of the X-ray identifier location.

Products Referenced
All referenced Boston Scientific pacemakers, ICDs, CRT-Ds, CRT-Ps, and S-ICDs

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For comprehensive information on device operation, reference the full instructions for use found at: www.bostonscientific-elabeling.com

CAUTION: Law restricts this device to sale by or on the order of a physician. Indications, contraindications, precautions and warnings can be found with product labeling supplied with each device. Products referenced herein may not be approved in all geographies. Information is for the use in countries with applicable Health Authority product registrations.

All graphics produced by Boston Scientific Corporation, unless otherwise noted.

Contact Information
www.bostonscientific.com
Americas
Technical Services
LATITUDE™ Customer Support
1.800.CARDIAC (227.3422)
+1.651.582.4000
Patient Services
1.866.484.3268
Europe, Middle East, Africa
Technical Services
+32 2 416 7222
infochservice@bsci.com

LATITUDE Customer Support
latitude.europe@bsci.com
Japan
Technical Services
japanatchservice@bsci.com
LATITUDE Customer Support
japan.latitude@bsci.com
Asia Pacific
Technical Services
+61 2 8063 8299
aptechservice@bsci.com
LATITUDE Customer Support
latitudeasiapacific@bsci.com

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X-ray Identification in Boston Scientific Pulse Generators

X-ray Identifier

Boston Scientific pulse generators, including pacemakers, defibrillators, and S-ICDs, have an identifier that is visible on X-ray film or under fluoroscopy. This identifier provides noninvasive confirmation of the manufacturer and consists of letters (manufacturer identification) and a number (cross-references to a programmer software application) that is required in order to communicate with the device.

The X-ray identifier is embedded in the header of the device. In general, the X-ray identifier will be visible by X-ray or fluorography at the approximate location identified in Figure 1. Note that the location may vary slightly based on the device family or the header design.

Identification via a Boston Scientific Programmer

The pulse generator can also be identified by interrogating it with a Boston Scientific Programmer. The model number is stored in device memory and is shown on the programmer upon interrogation. If the pulse generator is not manufactured by Boston Scientific or the model is not supported by the programmer being used, a message will be displayed when an attempt is made to interrogate the device. For example, the message displayed on the Model 3120 ZOOM™ LATITUDE™ Programmer is shown in Figure 2.

Figure 1. X-ray identifier

Figure 2. PG Not Identified Message
Table 1. X-ray identifier - Boston Scientific Pacemakers and CRT-Ps

Note that images below include a representative sample from each device family - the location of the X-ray identifier may vary slightly based on the device family or the design of the header.

<table>
<thead>
<tr>
<th>Device Family</th>
<th>MRI Models:</th>
<th>X-ray Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACCOLADE™, PROONENT™, ESSENTIO™, ALTRUA™</strong> 2 pacemakers</td>
<td><img src="image1.png" alt="ACCOLADE MRI" /></td>
<td>BSC012</td>
</tr>
<tr>
<td><strong>VISIONIST™, VISIONIST™ X4, VALITUDE™, VALITUDE™ X4 CRT-Ps</strong></td>
<td><img src="image2.png" alt="VISIONIST MRI" /></td>
<td>BSC012</td>
</tr>
<tr>
<td><strong>ACCOLADE MRI, PROONENT MRI, ESSENTIO MRI pacemakers</strong></td>
<td><img src="image3.png" alt="ACCOLADE MRI MRI" /></td>
<td>BSC012</td>
</tr>
<tr>
<td><strong>VITALIO™, FORMIO™, INGENIO™, ADVANTIO™</strong> pacemakers</td>
<td><img src="image4.png" alt="VITALIO MRI" /></td>
<td>BSC011</td>
</tr>
<tr>
<td><strong>INLIVEN™, INTUA™, INVIVE™ CRT-Ps</strong></td>
<td><img src="image5.png" alt="INLIVEN MRI" /></td>
<td>BSC011</td>
</tr>
<tr>
<td><strong>ALTRUA™ pacemakers</strong></td>
<td><img src="image6.png" alt="ALTRUA MRI" /></td>
<td>BOS003</td>
</tr>
<tr>
<td>Table 2. X-ray identifier - Boston Scientific ICDs and CRT-Ds</td>
<td></td>
<td></td>
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<tr>
<td>----------------------------------------------------------</td>
<td></td>
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</tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**RESONATE™, PERCIVA™, CHARISMA™, VIGILANT™, MOMENTUM™ ICDs**  
**RESONATE, CHARISMA, VIGILANT, MOMENTUM CRT-Ds**  
**AUTOGEN™, DYNAGEN™, INOGEN™, ORIGEN™ ICDs**  
**AUTOGEN, DYNAGEN, INOGEN, ORIGEN CRT-Ds**  
Uses Programmer Software Application: Model 2868/3868  
X-ray identifier: **BSC140**

**INCEPTA™, PUNCTUA™, ENERGEN™ ICDs**  
**INCEPTA, PUNCTUA, ENERGEN CRT-Ds**  
Uses Programmer Software Application: Model 2868/3868  
X-ray identifier: **BSC120**

**TELIGEN™ ICD and COGNIS™ CRT-D**  
Uses Programmer Software Application: Model 2868/3868  
X-ray Identifier: **BOS112**
Table 3. X-ray identifier - Boston Scientific S-ICDs
Note that images below include a representative sample from each device family - the location of the X-ray identifier may vary slightly based on the device family or the design of the header.

**EMBLEM and EMBLEM MRI S-ICD**
Uses Programmer Software Application: Model 2877
X-ray identifier: **BSC507**

**SQ-RX S-ICD**
Uses Programmer Software Application: Model 2877
X-ray identifier: **CH1010**