



June 2009

Pacemaker and ICD Encyclopedia

Medtronic Technical Services

Cardiac Rhythm Disease Management Technical Services Mission Statement

- To be the unsurpassed leader in providing quality technical support for cardiac rhythm disease management products to healthcare professionals and Medtronic employees, resulting in improved patient outcomes and device optimization.
- To strive to be the industry standard of excellence in dedication, honesty, integrity, and quality in all that we do; to represent the company and department in a positive and courteous manner.
- To use the clinical and technical feedback that is obtained from field and customer contact to positively impact the design, development, and continuous improvement of cardiac rhythm disease management products.
- To respect diversity of people and ideas and the uniqueness of others; to establish an environment that supports individual and collaborative work; to maintain a workplace that motivates and supports employees to achieve business, advancement, development, and personal goals.





The information contained in this guide was, to the best of Medtronic's knowledge, complete at the time of publication. However, new devices or improvements may have been developed since publication that are not reflected in this guide. This pocket guide is intended primarily for use by Medtronic Sales and Technical Representatives. Non-Medtronic device information has been compiled from multiple sources and is provided with the understanding that the information has not necessarily been independently verified for accuracy.

How to Use This Guide

Pacemaker model numbers and names are listed in addition to the ICHD/NBG code, X-Ray ID, Configuration & Connector, Wrench Size, and Pacing and Magnet Rates at BOL and ERI/EOL. Pulse generators with programmable rates are noted with a PR. When magnet rate is the same as programmed rate it will also be noted with a PR. The pulse generators' ERI/EOL indicator(s) and behavior

are designated by the letters A-Xb. These categories are described on page 3 and in the foldout labeled "Footnotes" on the inside back cover of this booklet. The last column is the pulse generator's theoretical longevity in years based on a designated set of "nominal" parameters.

IPG	Model		NBG Code	X-ray ID	Sense/Pace Connector		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	8423	Spectrax SXT	SSIMO	HN	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	13.7 @ 2.5 V, 10.9 @ 5 V

This pulse generator is a single chamber, multiprogrammable, nontelemetry device. Magnet rate is the same as programmed rate. At ERI, magnet rate and paced rate decrease suddenly by 10% and pulse width increases by 40-85%.

Please Note: Because manufacturers may use variable parameters for longevity calculations which may be reflected in nonequivalent theoretical longevity comparisons, longevity other than those of Medtronic, Inc. have been deleted from this revision. Unless otherwise noted, Medtronic, Inc. calculates longevity based on nominal outputs and rates, 500 ohms lead impedance, and 100% pacing.

Footnotes [footnotes also fold out from inside back cover]

- A** A two-step change in magnet rate.
- B** Abrupt change in paced or magnet rate or interval specified in % or ppm/ms.
- C** A gradual decline in paced and/or magnet rate.
- D** A gradual change in magnet rate only specified in % or ppm.
- E** TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 80 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with a 10% decrease in PR and 20% decrease in magnet rate at ERI. PW stretching of 30% at ERI. No PW stretching with Legend II, Legend Plus and Legacy SR pulse generators.
- F** A sudden 100 ms increase in paced and/or magnet rate intervals.
- G** TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 90 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with an abrupt 10% rate decrease at ERI. PW stretching of 40-85% at ERI.
- H** No TMT. Magnet rate at BOL is 10% greater than pacing rate. Gradual 8% decrease in pacing and magnet rate at ERI. PW stretching of 40 to 85% at ERI.
- J** Undefined pulse width stretching at ERI.
- K** Application of a magnet causes an 18-event capture sequence at 80 ppm then programmed mode and rate for 16 events, then back to 80 ppm until magnet is removed.
- L** Magnet application causes an 18-event capture sequence at 80 ppm, then programmed mode and rate for 32 events, back to 80 ppm until magnet is removed.
- M** At ERT, magnet rate alternates between PR and 80 ppm on a beat-by-beat basis; output parameter values can be reprogrammed to extend service life.
- N** At EOL, Automatic Safety Reversion at 50 ppm, VVI/AAI, occurs with other parameter values nominal or as programmed; unit cannot be reprogrammed; magnet application results in asynchronous pacing at 50 ppm for 18 events.
- O** Note: 8619 and 8620 magnet rate is 90 ppm unless PR is greater than 90 ppm; then magnet rate is the same as PR.
- P** Early series models.
- R** Series Models known as the R & T series. Identified by a two-letter serial number prefix of R/* or T/* (* = wild card letter).
- S** PW reduced 50% on 3rd magnet output beat. Abrupt Magnet rate to 85 ppm at ERI.
- T** Simultaneous decrease in pulse amplitude to 4 V.
- U** AV settings of 200 or 230 ms, BOL magnet = 88; EOL magnet = 78.
- W** 10% decrease in PR. 10% increase in PW in two steps, first step is 5% increase.
- X** S/N $\geq$ 18,000 will show 62.5 ppm magnet indicator only (except in the case of component malfunction).
- Y** S/N $\geq$ 4000 will show 62.5 ppm magnet indicator only (except in the case of component malfunction).
- Z** TMT with magnet application is 3 (sets of) asynchronous pulses at a rate of 100 ppm. The first two sequence of pulses are delivered at the programmed amp. The third sequence of pulses at a 20% reduction of the programmed amp.

- Aa** Investigational device, not market released in U.S. at time of printing.
- Ba** Nonmagnetic behavior as indicated in footnote (Ea) below. If programmed to SST, intrinsic rates above magnet rate will result in triggered pacing.
- Ca** TMT; with magnet application 4 cycles at a rate of 90 ppm, followed by asynchronous PR for 60 cycles or until magnet removal. PW reduced by 50% on fifth output pulse.
- Da** Asynchronous pacing for a minimum of 60 cycles at sensor determined rate.
- Ea** If the "ERI response" is programmed ON, bradycardia pacing interval lengthens by 51 ms and antitachycardia response is activated. If programmed OFF, there is no change in behavior at EOL.
- Fa** For S/N > 25,000, EOL magnet rate is 83 ppm; for S/N < 25,000, EOL magnet rate is 78 ppm.
- Ga** Prior to 4/4/83: 11.5 years at 2.5 V, 9 years at 5 V; after 4/4/83: 13.7 years at 2.5 V, 10.9 years at 5 V.
- Ha** X-ray ID is inverted.
- Ja** For radiopaque codes: CX1 or CZ1, $\geq$ 30% increase in PW indicates ERI.
- Ka** For EMERGENCY VVI settings of 5 V, 0.8 ms PW, 500 ohms, 100% pacing.
- La** Magnet response is 10 cycles for 90 ppm, then drops to PR. EOL is 10 cycles at 80 ppm, then drops to PR minus 11%.
- Ma** TMT with magnet application is 3 cycles (PW reduced by 25% on third cycle) at a rate 10% higher than magnet rate, followed by magnet rate. A two-step change in magnet rate at ERI (one step change for models 7100 and 7100E). PW stretching of 40 to 85% at ERI (85-115% for models 5993SX, 7100, and 7100E).
- Na** No TMT. Gradual 10% decline in magnet rate only. PW stretching of 85-115% at ERI.
- Oa** TMT with magnet application is 2 cycles at a rate of 100 ppm (PW reduced by 25% on last cycle) followed by asynchronous pacing at set rate at BOL. Abrupt 10% rate decrease in both pacing and magnet rate at ERI. PW stretching of 85-115% at ERI.
- Pa** No TMT. Gradual 7% decrease in set rate and magnet rate. PW stretching of 85-115% at ERI.
- Ra** TMT with magnet application is 3 (sets of) asynchronous pulses at a rate of 100 ppm (PW reduced by 25% on the third pulse). For Kappa 400 devices, if "Extended TMT" is on, an additional four pulses occur (PW reduced by 50% on the 5th pulse, and by 75% on the 7th pulse).
- Ta** BOL magnet rate is 14% above PR. RRT is an abrupt decrease in magnet rate only to 11% below PR.
- Ua** Rechargeable: Recharging > weekly indicates RRT.
- Va** For S/N < 49,999 - 15% decrease of magnet rate below PR.
- Wa** For S/N > 50,000 - 10% decrease of magnet rate below PR.
- Xa** An incremental change in magnet rate only, specified in % or ppm.

- Ab** The VARIO function is a two-phase test. The first phase is the battery test. Upon magnet application, the pulse generator will emit 16 pulses at a rate of 100 ppm at BOL. The rate of the 16 pulses will gradually decline over the life of the generator.
- Bb** ERT = Magnet rate < 85, PW stretches to 1.5 ms. EOL = PR drop of 20%, after magnet rate decrease.
- Cb** BOL 2 beats at 1000 ms, then off.
- Db** EOL 2 beats at 1150 ms, then off.
- Eb** BOL 2 beats at 1610 ms, then off.
- Fb** EOL 2 beats at 1710 ms, then off.
- Gb** Vario function.
- Hb** 20% rate decrease is a secondary replacement indicator.
- Jb** Reverts to single chamber operation.
- Kb** BOL magnet rate is equal to the preset nonprogrammable rate. While several preset rates are available, the rate indicated represents a relatively common rate.
- Lb** No Magnet Response. 10% decrease in pacing rate only.
- Mb** Two connector port versions were available. A side-by-side version which requires a screwdriver for the integral capscrews, or the top/bottom version which requires a #6 hex wrench. Determination of which connector may be possible from X-ray.
- Nb** Magnet function may be optionally overridden.
- Ob** TMT with magnet application is 3 cycles at a rate of 100 ppm (PW reduced 25% on last cycle), followed by asynchronous pacing at 85 ppm at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 40-85% at ERI.
- Pb** TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 80 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at 85 ppm at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 30% at ERI. No PW stretching with Legacy SR, Legend II, or Legend Plus pulse generators. Activitax II pulse generators have an additional Intensified Follow-Up Indicator (75 ppm in Activity Mode and a 10% rate decrease in other modes) with magnet application, this is not an ERI.
- Rb** Also IS-1 compatible when Engineering series is $\geq$ 5.
- Sb** Also IS-1 compatible when Engineering series is $\geq$ 3.
- Tb** Also IS-1 compatible when Engineering series is $\geq$ 2.
- Ub** Also IS-1 compatible when Engineering series is $\geq$ 4.
- Wb** TMT with magnet application is 3 cycles at a rate of 100 ppm (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 40-85% at ERI.
- Xb** After magnet removal the TMT will begin following 10 paced or sensed events at 120 ppm for 3 asynchronous pulses, with the third pulse at a reduced amplitude of 2.5 V. A fourth asynchronous pulse is added for an amplitude setting of 4.6 V.

Abbreviations

Detach Tool

Detach Tool Abbreviations	Detach Tool Descriptions
#2	0.035" (1/32nd inch)
#4	0.050" (1/20th inch)
#5	0.062" (1/16th inch)
#6	0.062" (1/16th inch)
#10	0.093" (1/8th inch)

Screw Driver	Screw Driver Size
CPI	0.100" Bladed
Intermedics	0.200" Bladed

Toolless Abbreviations	Toolless Descriptions
None	No tool needed
SD	Screwdriver
SLC	Sidelock
QL	Quicklock

Waveform

Waveform Abbreviations	Waveform Descriptions
Bi	Biphasic waveform
Mono	Monophasic waveform
Mono/Bi	Either monophasic or biphasic

Nomenclature in EN 45502-2-1: 2003		Previously used nomenclature	
BOS	Beginning of Service	BOL	Beginning of Life
EOS	End of Service	EOL	End of Life
RRT	Recommended Replacement Time	ERI	Elective Replacement Indicator
PSP	Prolonged Service Period	Post-ERI conditions	
Projected service life		Longevity	

Device Connector

Connector Abbreviations	Device Connector Descriptions
3.2 mm C	3.2 mm, long pin cavity, no sealing rings, Cordis style
3.2 mm LP	3.2 mm, long pin cavity, with sealing ring, Medtronic style
4.75 mm	4.75 mm standard unipolar connector, low voltage
4.75 mm Bif Bi.	4.75 mm bifurcated bipolar connector, low voltage
5 mm Uni	5 mm standard connector, low voltage
5 mm	5 mm Ventritex connector, high voltage
5 mm Bif	5 mm bifurcated bipolar connector, low voltage
5/6 mm Uni	Medtronic Universal Unipolar 5/6 mm
6 B	6 mm Bifurcated
6 L	6 mm Linear bipolar
6 L-I	Intermedics Special 6 L
6.1 mm	6.1 mm CPI standard, high voltage
6.5 mm	6.5 mm Medtronic standard, high voltage
Bayonet	Biotronik Special no tool required connector
CCS	Cardiac Control System special
CKP	Cook special
CPI	CPI special
DF-1	3.2 mm, short pin cavity, no sealing rings, high voltage, DF-1 refers to the international standard ISO 11318:1993
DF-1 (1 port)	one DF-1 port per ICD header
DF-1 (2 ports)	two DF-1 ports per ICD header
DF-1 (3 ports)	three DF-1 ports per ICD header

Connector Abbreviations	Device Connector Descriptions
EDW	Edwards special
ELA	ELA special
HV-1	3.2 mm, short pin cavity, no sealing rings, high voltage
In-Line	Intermedics bipolar coaxial lead design
IS-1 BI	3.2 mm, short pin cavity, no sealing rings
IS-1 UNI	3.2 mm, short pin cavity, no sealing rings
Linear	Cordis, Telectronic bipolar coaxial lead design
LV-1	LV-1 refers to the Guidant CRT device with a proprietary connector, low voltage
PSI	Pacesetter special
Push/Pull	Push on/Pull to detach, no tool required connector
Screw	Pacesetter, Siemens no tool required connector
SOR	Sorin special
Spring clip	Medtronic special
Thermistor	Biotronik/Cook Special lead needed
Vitatron	Vitatron Special lead required
VS-1	3.2 mm, short pin cavity, no sealing rings. Calfee RV. A Voluntary Standard for 3.2 mm Unipolar and Bipolar Pacemaker Leads and Connectors, PACE. Nov-Dec 1986;9(II):1181-1185.
VS-1A	3.2 mm, long pin cavity, no sealing rings, low voltage
VS-1B	3.2 mm, long pin cavity, with sealing rings, low voltage

Abbreviations

Polarity

Polarity Abbreviations	Polarity Descriptions
UNI	Unipolar
BI	Bipolar
TRI	Tripolar
QUAD	Quadripolar

Fixation

Fixation Abbreviations	Fixation Descriptions
Ext/Ret Helix	Extendable-Retractable Helix mechanism
Preformed	Lead is preformed to allow fixation
Screw-In	Helical screw fixation
J+Ex./Ret. Helix	Preformed Extendable-Retractable Helix mechanism

Placement Technique

Placement Abbreviations	Placement Descriptions
ENDO	Endocardial
EPI	Epicardial
SubQ	Subcutaneous

Location in Body

Location Abbreviations	Location Descriptions
CS	Coronary Sinus
CS/SVC	Coronary Sinus or Subclavian
CV	Cardiac Vein
LA	Left Atrium
LV	Left Ventricle
MYO	Myocardial or Epicardial
RA	Right Atrium
RA/RV	Right Atrium or Right Ventricle
RV	Right Ventricle
SVC	Subclavian
VDD	Right Ventricle placement of tip with electrodes also in RA

Lead Connector

Lead Abbreviations	Lead Connector Descriptions
3.2 mm C	Long pin, sealing rings, 3.2 mm lead, Cordis style
3.2 mm LP Bi.	Long pin, no sealing rings, 3.2 mm lead Medtronic style, bipolar
3.2 mm LP#	3.2 mm lead with upsizing sleeve provided
3.2/5 mm	3.2 mm lead with upsizing sleeve provided
4.75 mm Bif Bi.	4.75 mm bifurcated bipolar lead, low voltage, bipolar
5 mm Bif	Standard 5 mm bifurcated bipolar lead, low voltage
5 mm	Standard 5 mm unipolar lead, either high or low voltage
5 mm/Thermistor	5 mm connector with a Thermistor
6 mm C	Cordis 6 mm connector
6 mm B	6 mm Coaxial Linear Bipolar connector
6 mm L-I	Intermedics special 6 mm Linear
A-Track™	Bifurcated connector. One of the Diagonal Atrial Bipolar (DAB) electrodes terminates in a 5 mm connector. The other diagonal is a specialized coaxial 3.2 mm (non-VS-1/IS-1, which can be unipolarized to 5 mm connector with a soft pliable upsizing sleeve) unipolar ventricular electrode attached to the distal pin.
A-V Data™	Early versions of the model 501 had bifurcated connectors, with an atrial 5 mm connector and a ventricular 4.5 mm connector. Models 209, 509, and later versions of the 501 have a specialized coaxial 3.2 mm (non-VS-1/IS-1, which can be unipolarized to 5 mm connector with a soft pliable upsizing sleeve) ventricular connector.
AO	American Optical Special
Bayonet	Biotronik or Edwards Special (Bayonet)

Lead Abbreviations	Lead Connector Descriptions
CCS	Cardiac Control Systems Special
ED	Edwards Special
DF-1	Short pin, sealing rings, 3.2 mm, high voltage, DF-1 refers to the international standard ISO 11318:1993
DF-1 (1 pin)	one DF-1 pin per lead
DF-1 (2 pins)	two DF-1 pins per lead
GE	General Electric Special
HV-1	Short pin, sealing rings, 3.2 mm, high voltage, HV-1 refers to ad hoc standard of Teletronics
IS-1	Short pin, sealing rings, 3.2 mm, low voltage, IS-1 refers to the international standard ISO 5841.3:1992
IS-1 Bif	IS-1 bifurcated
IS-1/5/6	IS-1 lead with 5/6 mm peelaway sleeve
IS-1/5	IS-1 lead with upsizing sleeve provided
IS-1/Therm	IS-1 with a Thermistor
LV-1	LV-1 refers to the Guidant LV leads with a proprietary connector.
PSI	Pacesetter Special
SE	Siemens Special Threaded
TRI	Sorin Tripolar
VIT	Vitatron Special
VS-1	Short pin, sealing rings, 3.2 mm, low voltage. Calfee RV. A Voluntary Standard for 3.2 mm Unipolar and Bipolar Pacemaker Leads and Connectors, <i>PACE</i> . Nov-Dec 1986;9(II):1181-1185.
VS-1/5	Lead is VS-1 with 5 mm upsizing sleeve provided

Abbreviations

Insulation or Materials

Material Abbreviations	Material Descriptions
55D	Polyurethane Pellethane 2363-55D
80A	Polyurethane Pellethane 2363-80A
85A	Polyurethane Pellethane 2363-85A
DBS	Drawn Brazed Strand
DFT	Drawn Filled Tube
ESC	Environmental Stress Cracking
MIO	Metal-induced oxidation
MP35N	Nickel Alloy (Ni, Co, Mo, Cr), see below
SIL	Silicone
POLY	Polyurethane

Misc.

Misc. Abbreviations	Descriptions
UNK	Unknown
None	None available or needed
N/A	Not applicable

Rate and Interval Chart

Rate (bpm)	Interval (ms)
30	2000
31	1935
32	1875
33	1818
34	1765
35	1714
36	1667
37	1622
38	1579
39	1538
40	1500
41	1463
42	1428
43	1395
44	1364
45	1333
46	1304
47	1277
48	1250
49	1224

Rate (bpm)	Interval (ms)
50	1200
51	1176
52	1154
53	1132
54	1111
55	1091
56	1071
57	1053
58	1034
59	1017
60	1000
61	984
62	968
63	952
64	938
65	923
66	909
67	896
68	882
69	870

Rate (bpm)	Interval (ms)
70	857
71	845
72	833
73	822
74	811
75	800
76	789
77	779
78	769
79	759
80	750
81	741
82	732
83	723
84	714
85	706
86	698
87	690
88	682
89	674

Rate (bpm)	Interval (ms)
90	667
91	659
92	652
93	645
94	638
95	631
96	625
97	619
98	612
99	606
100	600
102	588
104	577
106	566
108	556
110	545
112	536
114	526
116	517
118	508

Rate (bpm)	Interval (ms)
120	500
122	492
124	484
125	480
126	476
128	469
130	462
135	444
140	429
145	414
150	400
155	387
160	375
165	364
170	353
175	343
180	333
190	316
200	300
210	286

Rate (bpm)	Interval (ms)
220	273
230	261
240	250
250	240
260	231
270	222
280	214
290	207
300	200
400	150
500	120
600	100

For converting, use the following:

BPM (Beats Per Minute) to
MS (Millisecond)

$$\text{MS} = \frac{60,000}{\text{BPM}}$$

MS (Millisecond) to
BPM (Beats Per Minute)

$$\text{BPM} = \frac{60,000}{\text{MS}}$$

The NASPE/BPEG Generic (NBG) Pacemaker Code (Revised 2000)

Position	I	II	III	IV	V
Category	Chamber(s) Paced	Chamber(s) Sensed	Response to Sensing	Rate Modulation	Multisite Pacing
	O = None A = Atrium V = Ventricle D = Dual (A + V)	O = None A = Atrium V = Ventricle D = Dual (A + V)	O = None T = Triggered I = Inhibited D = Dual (T + I)	O = None R = Rate Modulation	O = None A = Atrium V = Ventricle D = Dual (A + V)
Mfr Designation Only	S = Single (A or V)	S = Single (A or V)			

Bernstein AD, Daubert J-C, Fletcher RD, Hayes DL, Lüderitz B, Reynolds DW, Schoenfeld MH, Sutton R. The Revised NASPE/BPEG Generic Code for antibradycardia, adaptive-rate, and multisite pacing. *PACE*. 2000;25:260-264.



The NASPE/BPEG Defibrillator (NBD) Code

I	II	III	IV
Shock Chamber	Antitachycardia-Pacing Chamber	Tachycardia Detection	Antibradycardia-Pacing Chamber
O = None A = Atrium V = Ventricle D = Dual (A + V)	O = None A = Atrium V = Ventricle D = Dual (A + V)	E = Electrogram H = Hemodynamic	O = None A = Atrium V = Ventricle D = Dual (A + V)

The Short Form of the NASPE/BPEG Defibrillator (NBD) Code:

ICD-S = ICD with **s**hock capability only

ICD-B = ICD with **b**radycardia pacing as well as shock

ICD-T = ICD with **t**achycardia (and bradycardia) pacing as well as shock

ICD = implanted cardioverter/defibrillator

Bernstein AD, Camm AJ, Fisher JD, Fletcher RD, Mead RH, Nathan AW, Parsonnet V, Rickards AF, Smyth NPD, Sutton R, Tarjan PP. The NASPE/BPEG Defibrillator Code. *PACE*. 1973; (16):1776-1780.

Bernstein AD, Camm AJ, Fisher JD, Fletcher RD, Mead RH, Nathan AW, Parsonnet V, Rickards AF, Smyth NPD, Sutton R, Tarjan PP. The NASPE/BPEG Defibrillator Code. *J Interv Cardiol*. 1993;(6):235-239.

Table of Contents

Angeion Corp. [ELA Medical, Inc.]	(800) 352-6466	www.angeion.com
ICD high-voltage devices	16	
HV high-voltage leads	17	
Biomec, Inc. [Enpath Medical, Inc.]	(877) 246-6325	www.biomec.com
LV low-voltage leads	18	
Biotronik, Inc.	(800) 547-0394 USA HQ	www.biotronik.com
IPG low-voltage devices	20	
CRT-P low-voltage CRT devices	29	
ICD high-voltage devices	30	
CRT-D high-voltage CRT devices	32	
LV low-voltage leads	33	
HV high-voltage leads	47	
Cardiac Control Systems, Inc.	(800) 227-7223	
IPG low-voltage devices	50	
LV low-voltage leads	52	
Cook Pacemaker Corp. [Cook Vascular]	(800) 245-4715	
IPG low-voltage devices	54	
LV low-voltage leads	56	
Cordis, Inc. [St. Jude Medical]	(800) 722-3774	
LV low-voltage leads	58	



ELA Medical, Inc.	(800) 352-6466.	www.elamedical.com
IPG low-voltage devices	70	
CRT-P low-voltage CRT devices	75	
ICD high-voltage devices	76	
CRT-D high-voltage CRT devices	77	
LV low-voltage leads	78	
HV high-voltage leads	83	
Enpath Medical, Inc.	(800) 943-1189.	www.enpathmedical.com
LV low-voltage leads	84	
Guidant Corp. [Boston Scientific]	(800) 227-3422.	www.bostonscientific.com
IPG low-voltage devices	86	
CRT-P low-voltage CRT devices	96	
ICD high-voltage devices	97	
CRT-D high-voltage CRT devices	103	
LV low-voltage leads	105	
HV high-voltage leads	114	
Innomedica [Enpath Medical, Inc.]	(800) 943-1189	
LV low-voltage leads	118	
Intermedics, Inc. [Guidant Corp.]	(800) 227-3422	
IPG low-voltage devices	120	
LV low-voltage leads	125	
HV high-voltage leads	134	

Medtronic, Inc.	(800) 723-4636 Tachycardia	www.medtronic.com
IPG low-voltage devices	136	(800) 505-4636 Bradycardia
CRT-P low-voltage CRT devices	154	
ICD high-voltage devices	155	
CRT-D high-voltage CRT devices	158	
Medtronic ICD Battery Assessment	159	
Medtronic ICD Connectors – Clinical Compatibility Guide	160	
LV low-voltage leads	163	
HV high-voltage leads	169	
Oscor Medical Corp.	(800) 726-7267	www.oscor.com
LV low-voltage leads	172	
Osypka [Dr. Osypka GmbH]	(800) 726-7267	www.osypka.com
LV low-voltage leads	188	
Pacesetter, Inc. [St. Jude Medical]	(800) 722-3774	
IPG low-voltage devices	190	
LV low-voltage leads	199	
Possis	Not in Service	
LV low-voltage leads	210	
Siemens-Elema [St. Jude Medical]	(800) 722-3774	
IPG low-voltage devices	212	
LV low-voltage leads	216	



Sorin Biomedica C.R.M. (800) 854-9503. www.sorin pacing.com

IPG low-voltage devices 220

LV low-voltage leads 227

St. Jude Medical (800) 722-3774. www.sjm.com

IPG low-voltage devices 230

CRT-P low-voltage CRT devices 235

ICD high-voltage devices 236

CRT-D high-voltage CRT devices 237

LV low-voltage leads 238

HV high-voltage leads 239

Teletronics Pacing Systems [St. Jude Medical] (800) 722-3774

IPG low-voltage devices 242

LV low-voltage leads 249

HV high-voltage leads 258

Vascor Medical Corp. (800) 330-1615. www.vascor medical.gobizgo.com

LV low-voltage leads 260

Ventritex, Inc. [St. Jude Medical] (800) 722-3774

ICD high-voltage devices 262

HV high-voltage leads 265

Vitatron [Medtronic, Inc.] (800) 848-2876. www.vitatron.com

IPG low-voltage devices 266

CRT-P low-voltage CRT devices 276

LV low-voltage leads 277

Angeion Corp. [ELA Medical, Inc.]

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	2000	Sentinel	VVEV	AN2000	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2010	Sentinel	VVEV	AN2010	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2011	Sentinel	VVEV	AN2011	None	IS-1 BI	DF-1 (1 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2012	Sentinel	VVEV	AN2012	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2020	LYRA	VVEV	AN2020	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2021	LYRA	VVEV	AN2021	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI
	2022	LYRA	VVEV	AN2022	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Charge Time ≥ 24 sec. Battery Voltage ≤ 5.0 V Programmer Indicates ERI



HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	1524TH	Endocure		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone	
	1535H	Endocure		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	None	Silicone	
	4011	AngeFlex		N/A	DF-1 (2 pins)	N/A	Bipolar	Endo RV & SVC	Tines	Silicone	
	4020	AngeFlex		N/A	DF-1 (2 pins)	N/A	Bipolar	Endo RV & SVC	Tines	Silicone	
	4021	AngeFlex		N/A	DF-1 (2 pins)	N/A	Bipolar	Endo RV & SVC	Tines	Silicone	
	4022	AngeFlex		N/A	DF-1 (2 pins)	N/A	Bipolar	Endo RV & SVC	Tines	Silicone	
	4023	AngeFlex		N/A	DF-1 (2 pins)	N/A	Bipolar	Endo RV & SVC	Tines	Silicone	
	4040	AngePass		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
	4041	AngePass		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
	4042	AngePass		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
	4080	AngePass		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	N/A	Silicone	
	4081	AngePass		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	N/A	Silicone	
	4082	AngePass		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	N/A	Silicone	
	4090	AngeFix		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone	

Biomec, Inc. [Enpath Medical, Inc.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	511111	Myopore		IS-1	UNI	Screw-In	EPI	SIL	RA/RV
	511112	Myopore		IS-1	UNI	Screw-In	EPI	SIL	RA/RV
	511210	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV
	511211	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV
	511212	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV

Biotronik, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	—	Axios DR-B	DDDR	ER	6 mm Programmable	6 mm Programmable	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	—	Axios SR-B	SSIR	ER	None	6 mm Programmable	#2	PR	PR-11% (SI)	PR	PR-11% (SOO)	B, 11%, Jb	6.7	
	101	Ergos 01 UP	SSIR	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	102	Diplos 03	DDDM	None	5 mm UNI	5 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%		
	102	Diplos 03	VVI	None	None	5 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%		
	103	Ergos 01 BP	SSIR	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	104	Kalos 03 A	VVIM	None	None	5 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	104B	Kalos 03 B	VVIM	None	None	6 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	105	Ergos 01 A	SSIR	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	107A	Leukos 03 A	VVI	None	None	5 mm UNI	#2	72	68	72	68	B, 6%, J		
	107B	Leukos 03 B	VVI	None	None	6 mm UNI	#2	72	68	72	68	B, 6%, J		
	111	Ergos 02 UP	DDDR	None	IS-1 UNI	IS-1 UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		
	112 472	Gemnos 02	DDD	AA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	112 473	Ergos 03	DDDR	AL	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		
	112 518	Pikos 01	SSIC	CA	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	112 548	Metros 01	SSIR	AC	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	112 622	Physios 01	DDDC	AK	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	112 651	Pikos E 01	SSIC	AE	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	112 681	Gemnos 03	DDD	AP	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	112 961	Thermos M 02	SSI	CE	IS-1 BI	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	112 961	Thermos M 02	SSIR	CE	IS-1 BI	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11%	B, 11%, J		
	113	Ergos 02 BP	DDDR	None	IS-1 BI	IS-1 BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	113 153	Gemnos 04	DDDC	AK	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	113 403	Metros S 01	SSIR	CL	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	113 714	Pikos LP 01	SSIC	EK	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	113 716	Pikos LP E 01	SSIC	PA	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	113 718	Pikos XLP 01	SSIC	EL	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	113 720	Pikos XLP E 01	SSIC	EP	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	113 850	Ergos S 03	DDDR	EA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		
	113 870	Metros TC 01	SSIR	KE	None	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	B, 11%		
	113 873	Gemnos TC 04	DDDCP	KC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	113 875	Ergos TC 03	DDDR	KA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		
	114 141	Pikos 01A	SSIC	CA	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	La, 11%, J		
	114 143	Gemnos 04A	DDDC	AK	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	115	Ergos 02 A	DDDR	None	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	B, 11%		
	115 186	Dromos 03	VDD	PC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	C, 11%		
	116 488	Dromos SL	VVDC	CH	IS-1 BI	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	C, 11%		
	116 703	Dromos DR	DDDR	LP	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	PR	PR-11%	C, 11%		
	116 705	Dromos DR A	DDDR	LP	5/6 mm UNI	5/6 mm UNI	#2	PR	PR-11%	PR	PR-11%	C, 11%		
	116 709	Dromos SR B	SSIR	LK	None	5/6 mm UNI	#2	PR	PR-11%	PR	PR-11%	C, 11%		
	120 070	Actros SR B	SSIR	LC	None	5/6 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	120 081	Actros SR	SSIR	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	

Biotronik, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	120 082	Actros SR	SSIR	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	120 083	Actros DR	DDDR	LC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	120 084	Actros DR	DDDR	LC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	120 085	Actros SLR	VDDR	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	7.4	
	120 086	Actros SLR	VDDR	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	7.3	
	120 741	Actros D	DDD	LC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.6	
	120 742	Actros D	DDD	LC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	120 744	Actros S	SSI	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.3	
	120 745	Actros S	SSI	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.2	
	121	Archos 06 A	AAI	None	5 mm UNI	None	#2	72	68	72	68	B, 6%		
	121 722	Kairos D	DDDC	LA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	121 723	Kairos D	DDDC	LA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	121 725	Kairos DR	DDDR	LA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.4	
	121 726	Kairos DR	DDDR	LA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.4	
	121 728	Kairos S	SSIC	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	121 729	Kairos S	SSIC	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	121 731	Kairos SL	VDDC	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	7.5	
	121 732	Kairos SL	VDDC	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	7.5	
	121 734	Kairos SR	SSIR	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.0	
	121 735	Kairos SR	SSIR	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.0	
	121 889	Actros D-A	DDD	LC	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	121 891	Actros S-B	SSI	LC	None	5/6 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	121 993	Kairos DR	DDDR	LA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.4	
	121 994	Kairos S	VVI	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (VVI)	PR	PR-11% (VOO)	B, 11%, Jb	8.1	



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	121 996	Kairos SR	WIR	LA	None	IS-1 UNI/BI	#2	PR	PR-11% (VVI)	PR	PR-11% (VOO)	B, 11%, Jb	8.0	
	121B	Archos 06 B	AAI	None	6 mm UNI	None	#2	72	68	72	68	B, 6%		
	122	Eikos 04 A	AAIM	None	5 mm UNI	None	#2	PR	PR-6%	PR	PR-6%	B, 6%		
	122	Eikos 04 B	AAIM	None	6 mm UNI	None	#2	PR	PR-6%	PR	PR-6%	B, 6%		
	122 069	Actros DR- A	DDDR	LC	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 126	BA03	DDDR	EE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	122 276	Actros DR- B	DDDR	LC	5/6 mm Unipolar	5/6 mm Unipolar	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 277	Kairos D-B	DDDC	LA	5/6 mm Unipolar	5/6 mm Unipolar	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 278	Kairos DR-B	DDDR	LA	5/6 mm Unipolar	5/6 mm Unipolar	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.4	
	122 311	Actros DR+	DDDR	LC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 313	Actros S+	SSI	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.2	
	122 314	Actros SR+	SSIR	LC	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	122 315	Actros SR+ B	SSIR	LC	None	5/6 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	122 390	Kairos D-A	DDDC	LA	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 392	Kairos DR-A	DDDR	LA	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.4	
	122 397	Kairos S-A	SSIC	LA	None	5 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	122 399	Kairos S-B	SSIC	LA	None	5/6 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.1	
	122 401	Kairos SR-A	SSIR	LA	None	5 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.0	
	122 403	Kairos SR-B	SSIR	LA	None	5/6 mm UNI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	8.0	
	122 445	Actros DR+ B	DDDR	LC	5/6 mm Unipolar	5/6 mm Unipolar	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 447	Philos D	DDD	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 448	Philos D	DDD	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 450	Philos DR	DDDR	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	

Biotronik, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	122 451	Philos DR	DDDR	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	122 453	Philos S	SSI	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	122 454	Philos S	SSI	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	122 456	Philos SLR	VDDR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	6.8	
	122 457	Philos SLR	VDDR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	6.8	
	122 459	Philos SR	SSIR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	122 460	Philos SR	SSIR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	122 544	Philos DR-T	VDDR	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	124	Diplos 04	DDDM	None	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	124	Diplos 04	DVI	None	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VVI)	PR	PR-11% (VOO)	B, 11%, Jb		
	124	Diplos 04	VVI	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, Jb		
	125	Leptos A	VVI	None	None	5 mm UNI	#2	70	61	70	61	B, 12%, J		
	126	Leptos 01 B	VVI	None	None	6 mm UNI	#2	70	61	70	61	B, 12%, J		
	129	Kalos 03 ABP	VVIM	None	None	5 mm Bif BI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	130	Leptos ABP	VVI	None	None	5 mm Bif BI	#2	70	61	70	61	B, 12%, J		
	131	Leukos 03 ABP	VVI	None	None	5 mm Bif BI	#2	72	68	72	68	B, 6%, J		
	145/8	Diplos 05	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	146	Diplos 05 B	DDDC	None	6 mm UNI	6 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	151	Diplos M 05 UP	DDDC	None	IS-1 UNI	IS-1 UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	151	Dromos	VAT	None	Bayonet UNI	Bayonet UNI	None	60	55	60	55	C, 5 ppm		
	151	Dromos 02	VAT	None	Bayonet UNI	Bayonet UNI	None	60	54	60	54	C, 10%		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	155	Diplos M 05 A	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	160	Neos LP 01 ABP	VVIM	None	None	5 mm Bif BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	165	Neos LP 01 A	VVIM	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	166	Neos LP 01 B	VVIM	None	None	6 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	168	Gemnos	DDDC	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (DOO)	La, 11%		
	178	Diplos 06	DDDCP	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb		
	200	Kalos 04 ABP	VVIM	None	None	5 mm Bif BI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	205	Kalos 04 A	VVIM	None	None	5 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	206	Kalos 04 B	VVIM	None	None	6 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	211	Leios 03 A	VVI	None	None	5 mm UNI	#2	72	68	72	68	B, 6%		
	211	Leios 03 B	VVI	None	None	6 mm UNI	#2	72	68	72	68	B, 6%		
	211	Kalos 05 UP	VVIM	None	None	IS-1 UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	213	Kalos 05 BP	VVIM	None	None	IS-1 BI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	215	Kalos 05 A	VVIM	None	None	5 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	216	Kalos 05 B	VVIM	None	None	6 mm UNI	#2	PR	PR-6%	PR	PR-6%	B, 6%, J		
	300	Trios M 01 ABP	VVIP	None	None	5 mm Bif BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	301	Trios M 01 UP	VVIP	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	303	Trios M 01 BP	VVIP	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	305	Trios M 01 A	VVIP	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		

Biotronik, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	306	Trios M 01 B	VVIP	None	None	6 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	311	Trios 02 UP	VVIP	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	313	Trios 02 BP	VVIP	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	315	Trios 02 A	VVIP	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	331 443	Philos DR	DDDR	LE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	331 445	Philos SLR	VDDR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	6.8	
	331 446	Philos SR	SSIR	LE	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	331 598	Philos DR-B	DDDR	LE	6 mm Unipolar	6 mm Unipolar	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	331 599	Philos SR-B	SSIR	LE	None	6 mm Unipolar	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.6	
	338 843	Axios D	DDDM	ER	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	338 845	Axios DR	DDDR	ER	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	5.5	
	338 849	Axios SLR	VDDR	ER	None	IS-1 UNI/BI	#2	PR	PR-11% (VDD)	PR	PR-11% (VOO)	B, 11%, Jb	6.8	
	338 851	Axios S	VVIM	ER	None	IS-1 UNI/BI	#2	PR	PR-11% (VVI)	PR	PR-11% (VOO)	B, 11%, Jb	6.7	
	338 851	Axios SR	SSIR	ER	None	IS-1 UNI/BI	#2	PR	PR-11% (SSI)	PR	PR-11% (SOO)	B, 11%, Jb	6.7	
	343	Chronos 04	VVI	BKC5	None	Bayonet UNI	None	72	65	72	65	C, 9%		
	343L	IDP-54L	VVI	None	None	Bayonet UNI	None	70	61	70	61	C, 12%		
	343L	IDP-54L1	VVI	None	None	Bayonet UNI	None	72	63	72	63	C, 12%		
	344L	IKP-53	VDT	None	Bayonet UNI	Bayonet UNI	None	70	61	70	61	C, 12%		
	344L	IKP-51	VOO	None	None	Bayonet UNI	None	70	61			C, 12%		
	344L	IDP-84	VVI	None	None	Bayonet UNI	None	70	61	70	61	C, 12%		
	344L	IDP-94	VVI	None	None	Bayonet UNI	None	70	61	70	61	C, 12%		
	344L	IDP-144	VVI	None	None	Bayonet UNI	None	72	63	72	63	C, 12%		
	344L	IKP-54	VVI	None	None	Bayonet UNI	None	70	61	70	61	C, 12%		
	344L	IKP-52	VVT	None	None	Bayonet UNI	None	70	61	70	61	C, 12%		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	400	Neos M 01 ABP	SSIC	None	None	5 mm Bif BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	401	Neos M 01 UP	SSIC	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	403	Neos M 01 BP	SSIC	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	405	Neos M 01 A	SSIC	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	406	Neos M 01 B	SSIC	None	None	6 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	500	Neos 01 ABP	SSIM	None	None	5 mm Bif BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	501	Neos 01 UP	SSIC	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	503	Neos 01 BP	SSIC	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	505	Neos 01 A	SSIM	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	506	Neos 01 B	SSIC	None	None	6 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	511	Neos 02 UP	SSIC	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	513	Neos 02 BP	SSIC	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	515	Neos 02 A	SSIC	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	516	Neos 02 B	SSIC	None	None	5/6 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	601	Mikros 02 UP	SSIC	None	None	IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	603	Mikros 02 BP	SSIC	None	None	IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	605	Mikros 02 A	SSIC	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	701	Nanos 01 UP	SSIC	None	None	VS-1/IS-1 UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	703	Nanos 01 BP	SSIC	None	None	VS-1/IS-1 BI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	705	Nanos 01 A	SSIC	None	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		

Biotronik, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	805	Thermos 01 UP	SSIR	-	None	5 mm UNI	#2	PR	PR-11%	PR	PR-11%	B, 11%, J	4.5	
	813	Thermos 01 UP	SSI	None	None	IS-1 UNI Pace/Sense with BI Thermistor	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	813	Thermos 01 UP	SSIR	None	None	IS-1 UNI Pace/Sense with BI Thermistor	#2	PR	PR-11% (SSI)	PR	PR-11%	B, 11%, J		
	823	Thermos 02 UP	SSI	None	None	IS-1 UNI Pace/Sense with BI Thermistor	#2	PR	PR-11%	PR	PR-11%	B, 11%, J		
	823	Thermos 02 UP	SSIR	None	None	IS-1 UNI Pace/Sense with BI Thermistor	#2	PR	PR-11% (SSI)	PR	PR-11%	B, 11%, J		

CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage CRT devices	112 541	Triplos LV	DDDRV	LE	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	112 594	Triplos LV	DDDRV	LE	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	338 200	Stratos LV	DDDRV	SV	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	338 201	Stratos LV	DDDRV	SV	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	338 206	Stratos LA	DDDRA	SV	IS-1 UNI/BI	IS-1 UNI/BI	IS-1 UNI/BI	None	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	338 207	Stratos LA	DDDRA	SV	IS-1 UNI/BI	IS-1 UNI/BI	IS-1 UNI/BI	None	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	341 458	Triplos LV-T	DDDRV	LE	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	
	341 459	Triplos LV-T	DDDRV	LE	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR-11%	90	80	Mag Rate 80 ppm (cycles 1-10)	

Biotronik, Inc.

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	114 871	Phylax 03	VVEV	PE	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Indicated by programmer
	118 748	Phylax 06	VVEV	CS	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Indicated by programmer
	118 862	Phylax 06	VVEV	CS	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Indicated by programmer
	121 001	Phylax AV	VVED	PF	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	121 162	Phylax XM	VVEV	CR	None	4.75 mm Bif	6.1 mm (2 ports)	#2		Indicated by programmer
	121 491	Phylax XM	VVEV	CR	None	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	121 492	Phylax XM	VVEV	CR	None	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	121 493	MycroPhylax	VVEV	CZ	None	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	121 737	Phylax 06	VVEV	CS	None	4.75 mm Bif	6.1 mm (2 ports)	#2		Indicated by programmer
	122 331	MycroPhylax	VVEV	CZ	None	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	122 382	Phylax AV	VVED	PF	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2		Indicated by programmer
	122 499	Tachos Atrial-Tx	VVED	EV	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	126 086	Mycro Phylax BT	VVEV	CZ	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Indicated by programmer
	330 444	Belos VR	VVEV	FA	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	330 649	Mycro Phylax Plus BT	VVEV	CZ	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Indicated by programmer
	331 135	Belos VR-T	VVEV	FA	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	334 341	Deikos A+	DDED	EV	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	335 572	Tachos DR	VVED	EV	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	338 170	Belos DR	VVED	FA	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	338 171	Belos DR-T	VVED	FA	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	338 172	Belos A+	VVEV	FA	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	338 173	Belos A+/T	VVEV	FA	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	341 517	Cardiac Airbag-T	VVEV	EI	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	342 873	Belos VR	VVEV	FA	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	345 424	Cardiac Airbag	VVEV	EI	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	346 998	Lexos VR	VVEV		None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	346 999	Lexos VR - T	VVEV		None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	347 000	Lexos DR	DDED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	347 001	Lexos DR - T	DDED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	350 822	Xelos DR-T	VVED	FC	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	350 822	Xelos DR-T	VVED	EV	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	353 219	Lumos VR-T	VVEV	LT	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	353 220	Lumos DR-T	VVED	LT	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Indicated by programmer
	MycroPhylax XM HC	MycroPhylax XM HC	VVEV		None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Indicated by programmer

Biotronik, Inc.

CRT-D	Model		NBD Code	X-ray ID	Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	LV	HV			
high-voltage CRT devices	334 344	Tupos LV/ATx	VVED	EV	IS-1 BI	IS-1 BI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery voltage <= 5.70 V Programmer indicates ERI
	347 406	Kronos LV-T	VVED	FL	IS-1 BI	IS-1 BI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery voltage <= 5.70 V Programmer indicates ERI



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	115 606	ELC-54-UP		IS-1	UNI	Screw	UNK	SIL	UNK
	116 015	ELC-35-UP		IS-1	UNI	Screw	UNK	SIL	UNK
	119 684	Synox SX 60-BP		IS-1	BI	Passive	ENDO	SIL	RV
	119 687	Polyrox PX 60-BP		IS-1	BI	Passive	ENDO	SIL	RV
	119 924	Polyrox PX 53-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
	120 143	Synox SX 53-JBP		IS-1	BI	Passive	ENDO	SIL	RA
	120 307	Polyrox PX 53-BP		IS-1	BI	Passive	ENDO	SIL	RV
	120 435	Polyrox PX 45-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
	120 438	Synox SX 45-JBP		IS-1	BI	Passive	ENDO	SIL	RA
	120 444	Synox SX 53-BP		IS-1	BI	Passive	ENDO	SIL	RV
	124 539	Solox SLX-65/11-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
	124 540	Solox SLX-65/13-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
	124 541	Solox SLX-65/14-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
	124 542	Solox SLX-65/15-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
	124 543	Solox SLX-65/17-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
	124 774	Retrox RX 45-JBP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	124 775	Retrox RX 53-JBP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	124 776	Retrox RX 53-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	124 777	Retrox RX 60-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	124 853	Synox SX 53/15-BP							
	124 854	Synox SX 60/15-BP							
	130 018	Elox 53-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	130 050	Polyrox PX 53/15-BP		IS-1	BI	Passive	ENDO	SIL	RV

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	130 051	Polyrox PX 60/15-BP		IS-1	BI	Passive	ENDO	SIL	RV
	330 132	Elox 45-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	330 133	Elox 60-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	333 899	Solox SLX 58/11-BP			A:BI V:BI	Passive	ENDO	SIL	VDD
	333 900	Solox SLX 58/13-BP			A:BI V:BI	Passive	ENDO	SIL	VDD
	333 901	Solox SLX 58/14-BP			A:BI V:BI	Passive	ENDO	SIL	VDD
	333 902	Solox SLX 58/15-BP			A:BI V:BI	Passive	ENDO	SIL	VDD
	333 903	Solox SLX 58/17-BP			A:BI V:BI	Passive	ENDO	SIL	VDD
	338 021	Arox 60-BP		IS-1	BI	Passive	ENDO	SIL	RV
	338 022	Arox 45-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
	338 023	Arox 53-BP		IS-1	BI	Passive	ENDO	SIL	RV
	338 025	Arox 53-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
	342 305	Elox P 45-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	342 306	Elox P 53-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	342 307	Elox P 60-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	343 081	Selox SR 45		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	343 082	Selox SR 60		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	343 083	Selox SR 53		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	346 366	Selox ST 53		IS-1	BI	Passive	ENDO	SIL	RV
	346 367	Selox ST 60		IS-1	BI	Passive	ENDO	SIL	RV
	346 368	Setrox S JT 53		IS-1	BI	J+Tines	ENDO	SIL	RV
	346 369	Selox JT 45		IS-1	BI	J+Tines	ENDO	SIL	RV
	346 542	Corox OTW 75-UP		IS-1	UNI	Passive	ENDO	SIL	CS
	346 543	Corox OTW 85-UP		IS-1	UNI	Passive	ENDO	SIL	CS

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	350 973	Setrox S S 45		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	350 974	Setrox S S 53		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	350 975	Setrox S S 60		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	501 171			5 mm	UNI	Screw	EPI	SIL	RV
	501 181			IS-1	UNI	Screw	EPI	SIL	UNK
		AE-60/2-FH		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60/2-KB		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60/2-N		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60/4-FH		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60/4-N		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60/4-YC		Bayonet	UNI	Screw	ENDO	SIL	UNK
		AE-60/4-YR		Bayonet	UNI	Ext/Ret Screw	ENDO	SIL	UNK
		AE-60-I-2		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60-K		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60-K-10		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-60-KS-10		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/2-FH		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/2-KB		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/2-N		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/4-FA		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/4-FH		Bayonet	UNI	Sickle Hooks	ENDO	UNK	RV
		AE-85/4-N		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85/4-YR		Bayonet	UNI	Ext/Ret Screw	ENDO	SIL	UNK

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		AE-85-K		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85-K-10		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AE-85-KS-10		Bayonet	UNI	Passive	ENDO	SIL	UNK
		AM-50		Bayonet	UNI	Suture	EPI	SIL	UNK
		AMV-50		Bayonet	UNI	Suture	EPI	SIL	UNK
		DFH-45-A		5 mm	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-45-B		UNK	UNI	Sickle Hooks	ENDO	UNK	RA/RV
		DFH-45-UP		IS-1	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-53-A		5 mm	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-53-B		UNK	UNI	Sickle Hooks	ENDO	UNK	RA/RV
		DFH-53-UP		IS-1	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-60-A		5 mm	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-60-B		UNK	UNI	Sickle Hooks	ENDO	UNK	RA/RV
		DFH-60-UP		IS-1	UNI	Sickle Hooks	ENDO	SIL	RA/RV
		DFH-60-VSUP		IS-1	UNI	Passive	ENDO	SIL	RV
		DJ-45-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJ-45-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DJ-53-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJ-53-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DJ-60-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJ-60-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DJ-60-VSUP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DJP-45-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJP-45-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads		DJP-53-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJP-53-UP		IS-1	UNI	J+Tines	ENDO	UNK	RA
		DJP-53-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DJP-60-A		5 mm	UNI	J+Tines	ENDO	SIL	RA
		DJP-60-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		DM-50-A		5 mm	UNI	Suture	EPI	SIL	RV
		DM-50-UP		IS-1	UNI	Suture	EPI	SIL	RV
		DM-50-VSUP		IS-1	UNI	Suture	EPI	SIL	RV
		DN-53-A		5 mm	UNI	Tines	ENDO	SIL	RV
		DN-53-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DN-60-A		5 mm	UNI	Tines	ENDO	SIL	RV
		DN-60-B		6 mm	UNI	Tines	ENDO	SIL	RV
		DN-60-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DN-60-VSUP		IS-1	UNI	Passive	ENDO	SIL	RV
		DN-85-A		5 mm	UNI	Passive	ENDO	SIL	UNK
		DN-85-UP		IS-1	UNI	Passive	ENDO	SIL	UNK
		DNP-53-A		5 mm	UNI	Tines	ENDO	SIL	RV
		DNP-53-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DNP-60-A		5 mm	UNI	Tines	ENDO	SIL	RV
		DNP-60-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DNR-53-A		5 mm	UNI	Tines	ENDO	SIL	RV
		DNR-53-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DNR-60-A		5 mm	UNI	Tines	ENDO	SIL	RV

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		DNR-60-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		DNR-60-VSUP		IS-1	UNI	Screw	ENDO	SIL	RV
		DY-53-UP		IS-1	UNI	Screw	ENDO	SIL	RV
		DY-60-UP		IS-1	UNI	Fixed Screw	ENDO	SIL	RV
		DY-60-VSUP		IS-1	UNI	Screw	ENDO	SIL	RV
		DYC-53-UP		IS-1	UNI	Screw	ENDO	SIL	RV
		DYC-60-UP		IS-1	UNI	Helical Coil	ENDO	SIL	RV
		DYC-60-VSUP		IS-1	UNI	Screw	ENDO	SIL	RV
		ELC-35/S-UP		IS-1	UNI	Screw	UNK	SIL	UNK
		ELC-54/S-UP		IS-1	UNI	Screw	UNK	SIL	UNK
		ELC-54-A		5 mm	UNI	Screw	UNK	SIL	UNK
		FH-45-BP		IS-1	BI	Sickle Hooks	ENDO	SIL	RV
		FH-53-BP		IS-1	BI	Sickle Hooks	ENDO	SIL	RA/RV
		FH-60-BP		IS-1	BI	Sickle Hooks	ENDO	SIL	RV
		FH-60-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		FH-60-VSBP		IS-1	BI	Passive	ENDO	SIL	RV
		FH-60-VSUP		IS-1	UNI	Passive	ENDO	SIL	RV
		IE-60-I		Bayonet	UNI	Prongs	ENDO	SIL	UNK
		IE-60-K-10		Bayonet	UNI	Wedge	ENDO	SIL	UNK
		IE-60-KS-10		Bayonet	UNI	Wedge	ENDO	SIL	UNK
		IE-65-I		Bayonet	UNI	Prongs	ENDO	SIL	UNK
		IE-85-I		Bayonet	UNI	Prongs	ENDO	SIL	UNK
		IE-85-K-10		Bayonet	UNI	Wedge	ENDO	SIL	UNK
		IE-85-KS-10		Bayonet	UNI	Wedge	ENDO	SIL	UNK

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads		ILK-35-A		5 mm	UNI	UNK	UNK	SIL	UNK
		IVE-185		Bayonet	UNI	Prongs	ENDO	SIL	UNK
		IVE-85		Bayonet	UNI	Wires	UNK	SIL	UNK
		JP-45-BP		IS-1	BI	J+Tines	ENDO	SIL	RA
		JP-53-BP		IS-1	BI	J+Tines	ENDO	SIL	RA
		JP-60-BP		IS-1	BI	J+Tines	ENDO	SIL	RA
		K-10-60-A		5 mm	UNI	Passive	ENDO	SIL	UNK
		K-60-ABP		5 mm Bif	BI	Wedge	ENDO	SIL	RV
		ME-50		Bayonet	UNI	Helical Coil	UNK	SIL	UNK
		MEROX 45-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
		MEROX 53-BP		IS-1	BI	Passive	ENDO	SIL	RV
		MEROX 53-JBP		IS-1	BI	J+Tines	ENDO	SIL	RA
		MEROX 60-BP		IS-1	BI	Passive	ENDO	SIL	RV
		MEV-50		Bayonet	UNI	Helical Coil	UNK	SIL	UNK
		ML-150		5 mm	UNI	Screw	EPI	SIL	RA/RV
		ML-151		5 mm	UNI	Screw	EPI	SIL	RA/RV
		ML-160		IS-1	UNI	Screw	EPI	SIL	RA/RV
		ML-161		IS-1	UNI	Screw	EPI	SIL	RA/RV
		MX-50/01-BP		IS-1	BI	Passive	UNK	SIL	UNK
		MX-50/02-BP		IS-1	BI	Passive	UNK	SIL	UNK
		N-60/2-A		5 mm	UNI	Tines	ENDO	SIL	RV
		N-60-A		5 mm	UNI	Tines	ENDO	SIL	RV
		N-60-ABP		5 mm Bif	BI	Tines	ENDO	SIL	RV

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		N-60-B		6 mm	UNI	Tines	ENDO	SIL	UNK
		N-60-BP		IS-1	BI	Tines	ENDO	SIL	RV
		N-60-VSBP		IS-1	BI	Passive	ENDO	SIL	UNK
		NE-60-KS-10			UNI	Wedge	ENDO	SIL	RV
		NP-53-BP		IS-1	BI	Tines	ENDO	SIL	RV
		NP-60-ABP		5 mm Bif	BI	Tines	ENDO	SIL	RV
		NP-60-BP		IS-1	BI	Tines	ENDO	SIL	RV
		NP-60-VSBP		IS-1	BI	Passive	ENDO	SIL	RV
		NP-85-BP		IS-1	BI	Passive	UNK	UNK	UNK
		NP-T-60-UP		IS-1/Thermistor	UNI	Tines	ENDO	SIL	RV
		NT-60-A		5 mm/Thermistor	UNI	Tines	ENDO	SIL	RV
		NT-60-UP		IS-1	UNI	Passive	ENDO	SIL	UNK
		NT-60-VSUP		IS-1/Thermistor	UNI	Tines	ENDO	SIL	RV
		PE-35/4-ILK		5 mm	UNI	None	UNK	SIL	UNK
		PE-50/4-DM		5 mm	UNI	Suture	EPI	SIL	UNK
		PE-60/2-I2		5 mm	UNI	Prongs	ENDO	SIL	UNK
		PE-60/2-I3		5 mm	UNI	Prongs	ENDO	SIL	UNK
		PE-60/2-DN		5 mm	UNI	Tines	ENDO	SIL	UNK
		PE-60/2-FH		5 mm	UNI	Sickle Hooks	ENDO	SIL	UNK
		PE-60/2-K		5 mm	UNI	Wedge	ENDO	SIL	UNK
		PE-60/2-K-10		5 mm	UNI	Wedge	ENDO	SIL	UNK
		PE-60/2-KB		5 mm	UNI	Wedge/Ball Tip	ENDO	SIL	UNK
		PE-60/2-N		5 mm	UNI	Tines	ENDO	SIL	UNK
		PE-60/3-DJ		5 mm	UNI	J+Tines	ENDO	SIL	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads		PE-60/3-DJP		5 mm	UNI	J+Tines	ENDO	SIL	RA
		PE-60/3-J		5 mm	UNI	J+Tines	ENDO	SIL	RA
		PE-60/4-D		5 mm	UNI	Blunt Cylinder	ENDO	SIL	UNK
		PE-60/4-D2-K		5 mm	UNI	Double Wedge	ENDO	SIL	UNK
		PE-60/4-DFH		5 mm	UNI	Sickle Hooks	ENDO	SIL	UNK
		PE-60/4-DN		5 mm	UNI	Tines	ENDO	SIL	UNK
		PE-60/4-DNB		5 mm	UNI	Tines/Ball Tip	ENDO	SIL	UNK
		PE-60/4-DNP		5 mm	UNI	Tines	ENDO	SIL	UNK
		PE-60/4-DNR		5 mm	UNI	UNI	ENDO	SIL	UNK
		PE-60/4-DY		5 mm	UNI	Fixed Screw	ENDO	SIL	UNK
		PE-60/4-DYC		5 mm	UNI	Helical Coil	UNK	SIL	UNK
		PE-60/4-FH		5 mm	UNI	Sickle Hooks	ENDO	SIL	UNK
		PE-60/4-K-10		5 mm	UNI	Wedge	ENDO	SIL	UNK
		PE-60/4-N		5 mm	UNI	Tines	ENDO	SIL	UNK
		PE-60/4-Y		5 mm	UNI	Screw	UNK	SIL	UNK
		PE-60/4-Y2		5 mm	UNI	Screw	UNK	SIL	UNK
		PE-60/4-YC		5 mm	UNI	Helical Coil	UNK	SIL	UNK
		PE-60/4-YC2		5 mm	UNI	Helical Coil	UNK	SIL	UNK
		PE-60/4-YR		5 mm	UNI	Retract. Screw	ENDO	SIL	UNK
		PE-60/4-YR-2		5 mm	UNI	Retract. Screw	ENDO	SIL	UNK
		PE-60-I-2		5 mm	UNI	Prongs	ENDO	SIL	UNK
		PE-60-J		5 mm	UNI	J+Tines	ENDO	SIL	RA
41		PE-85/2-K		5 mm	UNI	Wedge	ENDO	SIL	UNK

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		PE-85/2-K-10		5 mm	UNI	Wedge	ENDO	SIL	UNK
		PE-85/2-KB		5 mm	UNI	Wedge/Ball Tip	ENDO	SIL	UNK
		PE-85/4-DN		5 mm	UNI	Passive	ENDO	SIL	UNK
		PE-85/4-DY		5 mm	UNI	Screw	ENDO	SIL	UNK
		PE-85/4-DYC		5 mm	UNI	Helical Coil	UNK	SIL	UNK
		PE-85/4-K10		5 mm	UNI	Wedge	ENDO	SIL	UNK
		PE-85/4-YR-2		5 mm	UNI	Retract. Screw	ENDO	SIL	UNK
		PE-85-I-2		5 mm	UNI	Prongs	ENDO	SIL	UNK
		PEB-60/3-N		5 mm Bif	BI	Tines	ENDO	SIL	UNK
		PEB-60/4-N		5 mm Bif	BI	Tines	ENDO	SIL	UNK
		PEB-85/3-N		5 mm Bif	BI	Tines	ENDO	SIL	UNK
		PEB-85/4-N		5 mm Bif	BI	Tines	ENDO	SIL	UNK
		PEC-60/2-DN		6 mm	UNI	Tines	ENDO	SIL	UNK
		PEC-60/2-I2		6 mm	UNI	Prongs	ENDO	SIL	UNK
		PEC-60/2-K		6 mm	UNI	Wedge	ENDO	SIL	UNK
		PEC-60/2-K-10		6 mm	UNI	Wedge	ENDO	SIL	UNK
		PEC-60/2-N		6 mm	UNI	Tines	ENDO	SIL	UNK
		PEC-60/3-DJ		6 mm	UNI	Passive	ENDO	UNK	UNK
		PEC-60/3-DJP		6 mm	UNI	Passive	ENDO	UNK	UNK
		PEC-60/4-D2-K		6 mm	UNI	Double Wedge	ENDO	SIL	UNK
		PEC-60/4-DFH		6 mm	UNI	Sickle Hooks	ENDO	SIL	UNK
		PEC-60/4-DN		6 mm	UNI	Tines	ENDO	SIL	UNK
		PEC-60/4-DNB		6 mm	UNI	Tines/Ball Tip	ENDO	SIL	UNK
		PEC-60/4-DNP		6 mm	UNI	Tines	ENDO	SIL	UNK

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		PEC-60/4-DNR		6 mm	UNI	Tines	ENDO	SIL	UNK
		PEC-60/4-DY		6 mm	UNI	Fixed Screw	ENDO	SIL	UNK
		PEC-60/4-DYC		6 mm	UNI	Helical Coil	UNK	SIL	UNK
		PEC-60/4-FH		6 mm	UNI	Sickle Hooks	ENDO	SIL	UNK
		PEC-60/4-K		6 mm	UNI	Wedge	ENDO	SIL	UNK
		PEC-60/4-K-10		6 mm	UNI	Wedge	ENDO	SIL	UNK
		PEC-60/4-N		6 mm	UNI	Tines	ENDO	SIL	UNK
		PEC-60/4-Y		6 mm	UNI	Screw	UNK	SIL	UNK
		PEC-60/4-Y2		6 mm	UNI	Screw	ENDO	UNK	UNK
		PEC-60/4-YC		6 mm	UNI	Helix	ENDO	SIL	UNK
		PEC-60/4-YC-2		6 mm	UNI	Helical Coil	UNK	SIL	UNK
		PEC-60/4-YR		6 mm	UNI	Retract. Screw	ENDO	SIL	UNK
		PEC-60/4-YR-2		6 mm	UNI	Retract. Screw	ENDO	SIL	UNK
		Polyrox PX-53-JUP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		Polyrox PX-53-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		Polyrox PX-60-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		PS-53-A		5 mm	UNI	Tines	ENDO	SIL	RV
		PS-53-BP		IS-1	BI	Tines	ENDO	SIL	RV
		PS-53-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		PS-60-A		5 mm	UNI	Tines	ENDO	SIL	RV
		PS-60-BP		IS-1	BI	Tines	ENDO	SIL	RV
		PS-60-UP		IS-1	UNI	Tines	ENDO	SIL	RV
43		PS-60-VSBP		IS-1	BI	Passive	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads		PS-60-VSUP		IS-1	UNI	Passive	ENDO	SIL	RV
		PY-52		5 mm	UNI	Screw-In	UNK	UNK	RA/RV
		PY-58		5 mm	UNI	Screw-In	UNK	UNK	RA/RV
		PY-58-BV		VS-1	BI	Screw-In	UNK	UNK	RA/RV
		PY-58-V		VS-1	UNI	Screw-In	UNK	UNK	RA/RV
		SD-60-BP		IS-1	BI	Passive	ENDO	SIL	RV
		SD-60-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		SL-60/11-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SL-60/11-UP		IS-1	A:BI V:UNI	Passive	ENDO	SIL	VDD
		SL-60/13-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SL-60/13-UP		IS-1	A:BI V:UNI	Passive	ENDO	SIL	VDD
		SL-60/14-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SL-60/14-UP		IS-1	A:BI V:UNI	Passive	ENDO	SIL	VDD
		SL-60/15-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SL-60/15-UP		IS-1	A:BI V:UNI	Passive	ENDO	SIL	VDD
		SL-60/17-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SL-60/17-UP		IS-1	A:BI V:UNI	Passive	ENDO	SIL	VDD
		SL-65/17-BP		IS-1	A:BI V:BI	Passive	ENDO	SIL	VDD
		SR-53-BP		IS-1	BI	Retract. Screw	ENDO	SIL	RV
		SR-53-UP		IS-1	UNI	Retract. Screw	ENDO	SIL	RV
		SR-60-BP		IS-1	BI	Retract. Screw	ENDO	SIL	RV
		SR-60-UP		IS-1	UNI	Retract. Screw	ENDO	SIL	RV
		SX-60-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		TIJ-45-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads		TIJ-53-BP		IS-1	BI	J+Tines	ENDO	SIL	RA
		TIJ-53-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		TIJ-60-BP		IS-1	BI	J+Tines	ENDO	SIL	RA
		TIJ-60-UP		IS-1	UNI	J+Tines	ENDO	SIL	RA
		TIR-53-A		5 mm	UNI	Tines	ENDO	UNK	UNK
		TIR-53-BP		IS-1	BI	Tines	ENDO	SIL	RV
		TIR-53-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		TIR-60-A		5 mm	UNI	Tines	ENDO	SIL	RV
		TIR-60-BP		IS-1	BI	Tines	ENDO	SIL	RV
		TIR-60-UP		IS-1	UNI	Tines	ENDO	SIL	RV
		TIR-85-UP		IS-1	UNI	Passive	ENDO	SIL	RV
		Y-53/S-BP		IS-1	BI	Screw	UNK	UNK	UNK
		Y-53-BP		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RV
		Y-53-UP		IS-1	UNI	Screw	UNK	UNK	UNK
		Y-60/15-BP		IS-1	BI	Screw	UNK	UNK	UNK
		Y-60/S-BP		IS-1	BI	Screw	UNK	UNK	UNK
		Y-60-A		5 mm	UNI	Screw	ENDO	SIL	RV
		Y-60-BP		IS-1	BI	Fixed Screw	ENDO	SIL	RV
		Y-60-UP		IS-1	UNI	Screw	ENDO	SIL	RV
		Y-60-VSUP		IS-1	UNI	Screw	ENDO	SIL	RV
		YC-60-A		5 mm	UNI	Passive	ENDO	SIL	RV
45		YP-53-BP		IS-1	BI	Retract. Screw	ENDO	SIL	RV
		YP-53-UP		IS-1	UNI	Retract. Screw	ENDO	SIL	RV

Biotronik, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads		YP-60-BP		IS-1	BI	Retract. Screw	ENDO	SIL	RV
		YP-60-UP		IS-1	UNI	Retract. Screw	ENDO	SIL	RV
		YR-60-A		5 mm	UNI	Ext/Ret Screw	ENDO	SIL	RV
		YR-60-UP		IS-1	UNI	Retract. Screw	ENDO	SIL	RV
		YR-60-VSUP		IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RV
		YT-60-UP		IS-1/Thermistor	UNI	Fixed Screw	ENDO	SIL	RV



HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	115 084	PAT 81 UP		N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone
	116 414	SL-ICD 100/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	117 132	EPT 80/12-UP		N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	117 133	EPT 81/22-UP		N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	118 375	SL-ICD 100/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	118 875	SL-ICD 65/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	118 876	SL-ICD 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	119 077	SL-ICD 100/10		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	119 077	SL-ICD 100/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	119 177	SL-ICD 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	120 395	SL-ICD 75/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	120 396	SL-ICD 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	120 397	SL-ICD 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	120 398	SPS 75		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	122 005	Kainox RV® 75		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Passive	Silicone
	124 217	Kainox SL® 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 218	Kainox SL® 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 219	Kainox SL® 75/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 224	Kainox SL®		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	124 235	Kainox SL® 65/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 236	Kainox SL® 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 237	Kainox SL® 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
47	124 238	Kainox SL® 100/13		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone

Biotronik, Inc.

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	124 239	Kainox SL® 100/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 240	Kainox SL® 100/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	124 325	Kainox VCS® 60		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo RV & SVC	Passive	Silicone
	124 574	Kentrox RV-S® 75		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Silicone
	124 934	Kainox VDD 75/15		IS-1 BI x2	DF-1 (1 pin)	TB	Pentapolar	Endo RV & VDD	Tines	Silicone
	124 935	Kainox VDD 75/17		IS-1 BI x2	DF-1 (1 pin)	TB	Pentapolar	Endo RV & VDD	Tines	Silicone
	332 231	Kentrox RV® 75		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone
	332 232	Kentrox RV® 65		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone
	338 148	Kainox RV-S® 65		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Fixed Screw	Silicone
	347 354	Kentrox SL® 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	341 434	Kainox A+® 75/17		IS-1	DF-1 (1 pin)	UNK	UNK	Endo RV	Tines	Silicone
	341 435	Kainox A+® 75/15		IS-1	DF-1 (1 pin)	UNK	UNK	Endo RV	Tines	Silicone
	342 390	Kentrox SL-S® 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone
	342 391	Kentrox SL-S® 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone
	342 392	Kentrox SL® 100/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	342 393	Kentrox SL® 100/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	342 394	Kentrox SL® 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	342 395	Kentrox SL® 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	342 396	Kentrox SL® 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	342 397	Kentrox SL® 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone
	343 080	Kentrox RV-S® 65		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Active	Silicone
	345 988	Kentrox SL-S® 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone
	345 989	Kentrox SL-S® 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone
48	347 349	Kentrox SL® 100/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone



HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	347 351	Kentrox SL* 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	347 352	Kentrox SL* 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	347 353	Kentrox SL* 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	348 090	Kentrox RV* 65		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Passive	Silicone	
	348 091	Kentrox RV* 75		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Passive	Silicone	
	350 053	Lincox SD* 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone	
	350 054	Lincox SD* 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone	
	350 055	Lincox SD* 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone	
	350 056	Lincox SD* 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Active	Silicone	
	351 335	Lincox TD* 100/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	351 336	Lincox TD* 100/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	351 337	Lincox TD* 65/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	351 338	Lincox TD* 65/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	351 339	Lincox TD* 75/16		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
	351 340	Lincox TD* 75/18		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Passive	Silicone	
		SPS 100		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
		SPS 65		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
		VCS 100 UP		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	Silicone	

Cardiac Control Systems, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	101	Maestro	SSIC	CCS 101	None	5 mm UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	105	Maestro	SSIC	CCS 105	None	5 mm UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	106	Maestro	SSIC	CCS 106	None	5 mm Bif BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	109	Maestro	SSIC	CCS 109	None	5 mm UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	110	Maestro	SSIC	CCS 110	None	VS-1/IS-1 BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	115	Maestro	SSIC	CCS 115	None	VS-1/IS-1 UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	118	Maestro	SSIC	CCS 118	None	VS-1/IS-1 BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	119	Maestro	SSIC	CCS 119	None	6 mm UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	206	Maestro	SSIC	CCS 206	None	5 mm Bif BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	209	Maestro	VVI	CCS 209	None	UNI A-V Data™ lead	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	210	Maestro	SSIC	CCS 210	None	VS-1/IS-1 BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	215	Maestro	SSIM	CCS 215	None	VS-1/IS-1 UNI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		
	218	Maestro	SSIM	CCS 218	None	VS-1/IS-1 BI	#2	PR	50	80 (K)	PR/80 (M) 50	A, 80-PR/80-50, N		

IPG	Model		NBG Code	X-ray ID	Sense/Pace Connector		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	305	Maestro SAVVI	VDDM	CCS 305		A-Track™ lead**	#2	PR	50 (VVI)	80 (L)	PR/80 (M) 50	A, 80-PR/80-50, N		
	333	Maestro	VDD	CCS 333		VS-1/IS-1 UNI	#2	PR	50 (VVI)	80 (L)	PR/80 (M) 50	A, 80-PR/80-50, N		
	501	Maestro	DDDC	CCS 501	A-V Data™ lead UNI	A-V Data™ lead UNI	#2	PR	50 (VVI)	80 (L)	PR/80 (M) 50	A, 80-PR/80-50, N		
	505	Maestro	DDDC	CCS 505	5 mm UNI	5 mm UNI	#2	PR	50 (VVI)	80 (L)	PR/80 (M) 50	A, 80-PR/80-50, N		
	509	Maestro	DDDC	CCS 509	A-V Data™ lead UNI	A-V Data™ lead UNI	#2	PR	50 (VVI)	80 (L)	PR/80 (M) 50	A, 80-PR/80-50, N		

* A-V Data™ — Early versions of the model 501 had bifurcated connectors, with an atrial 5 mm connector and a ventricular 4.5 mm connector. Models 209, 509, and later versions of the 501 have a specialized coaxial 3.2 mm (non-VS•1/IS•1, which can be unipolarized to 5mm connector with a soft pliable upsizing sleeve) ventricular connector.

** A-Track™ — Bifurcated connector. One of the Diagonal Atrial Bipolar (DAB) electrodes terminates in a 5 mm connector. The other diagonal is a specialized coaxial 3.2 mm (non-VS•1/IS•1, which can be unipolarized to 5 mm connector with a soft pliable upsizing sleeve) unipolar ventricular electrode attached to the distal pin.

Cardiac Control Systems, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	AT-133			P/S 3.2 special, 5 Bif mm AV Data	UNI	TriFix	ENDO	POLY	VDD
	AT-134			P/S 3.2 special, 5 Bif mm AV Data	UNI	TriFix	ENDO	POLY	VDD
	AT-332			P/S 3.2 special, 5 Bif mm AV Data	UNI	TriFix	ENDO	POLY	VDD
	AT-333			P/S 3.2 special, 5 Bif mm AV Data	UNI	Trabeculok	ENDO	POLY	VDD
	AT-334			P/S 3.2 special, 5 Bif mm AV Data	UNI	Trabeculok	ENDO	POLY	VDD
	AT-342			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AT-343			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AT-344			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AT-442			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AT-443			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AT-444			IS-1Bif	UNI	Passive	ENDO	POLY	VDD
	AV-102			P/S 5 mm, 4.5 mm AV Data	UNI	Tines	ENDO	POLY	RV
	AV-106			3.2 mm special, A-V Data	UNI	Tines	ENDO	POLY	RV
	AV-131			3.2 mm special, A-V Data	UNI	TriFix	ENDO	POLY	RV
	AV-132			3.2 mm special, A-V Data	UNI	TriFix	ENDO	POLY	RV
	AV-331			3.2 mm, A-V Data	UNI	Trabeculok	ENDO	POLY	RV
	AV-342			P/S IS-1, Data IS-1	UNI	Trabeculok	ENDO	UNK	RV
	AV-343			P/S IS-1, Data IS-1	UNI	Trabeculok	ENDO	UNK	RV
	AV-344			P/S IS-1, Data IS-1	UNI	Trabeculok	ENDO	UNK	RV
	AV-431			3.2 mm, A-V Data	UNI	Tines	ENDO	POLY	RV
	AV-433				UNI		UNK	UNK	UNK
	AV-434				UNI		UNK	UNK	UNK
	AV-442			P/S IS-1, Data IS-1	UNI	Tines	ENDO	UNK	RV
	AV-443			P/S IS-1, Data IS-1	UNI	Tines	ENDO	UNK	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	AV-444			P/S IS-1, Data IS-1	UNI	Tines	ENDO	UNK	RV
	BV-114			5 mm Bif	BI	Tines	ENDO	POLY	RV
	BV-116			5 mm Bif	BI	TriFix	ENDO	POLY	RV
	BV-117			IS-1	BI	TriFix	ENDO	POLY	RV
	BV-317			IS-1	BI	Trabeculok	ENDO	POLY	RV
	BV-417			VS-1	BI	Tines	ENDO	POLY	RV
	SJ-103			5 mm	UNI	J+Tines	ENDO	POLY	RA
	SJ-111			5 mm	UNI	TriFix	ENDO	POLY	RA
	SJ-411			5 mm	UNI	J+Tines	ENDO	POLY	RA
	SJ-412			VS-1	UNI	J+Tines	ENDO	POLY	RA
	SV-101			5 mm	UNI	Tines	ENDO	POLY	RV
	SV-105			5 mm	UNI	Tines	ENDO	POLY	RV
	SV-107			5 mm	UNI	TriFix	ENDO	POLY	RV
	SV-109			IS-1	UNI	TriFix	ENDO	POLY	RV
	SV-307			5 mm	UNI	Trabeculok	ENDO	POLY	RV
	SV-309			IS-1	UNI	Trabeculok	ENDO	POLY	RV
	SV-407			5 mm	UNI	Tines	ENDO	POLY	RV
	SV-409			VS-1	UNI	Tines	ENDO	POLY	RV

Cook Pacemaker Corp. [Cook Vascular]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	325		VVIM	None	None	6 mm UNI	#6	PR	PR-7%	PR	PR-7%	C, 7%	
	325C		VVIM	None	None	6 mm UNI	#6	PR	PR-7%	PR	PR-7%	C, 7%	
	325D		VVIM	None	None	6 mm UNI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	325T		VVIC	None	None	6 mm UNI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	326		VVIM	None	None	5 mm Bif BI	#6	PR	PR-7%	PR	PR-7%	C, 7%	
	326T		VVIC	None	None	5 mm Bif BI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	327D	VentriFlex(P)	VVIM	None	None	6 mm UNI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	327D	VentriFlex(R)	VVIM	None	None	6 mm UNI	#2	PR	PR	PR	PR-9%	B, 9%	
	327T	VentriFlex(P)	VVIC	None	None	6 mm UNI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	327T	VentriFlex(R)	VVIC	None	None	6 mm UNI	#2	PR	PR	PR	PR-9%	B, 9%	
	329D	VentriFlex(P)	VVIM	None	None	5 mm Bif BI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	329D	VentriFlex(R)	VVIM	None	None	5 mm Bif BI	#2	PR	PR	PR	PR-9%	B, 9%	
	329T	VentriFlex(P)	VVIC	None	None	5 mm Bif BI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	329T	VentriFlex(R)	VVIC	None	None	5 mm Bif BI	#2	PR	PR	PR	PR-9%	B, 9%	
	331T	VentriFlex(P)	VVIC	None	None	5 mm UNI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	331T	VentriFlex(R)	VVIC	None	None	5 mm UNI	#2	PR	PR	PR	PR-9%	B, 9%	
	332T	VentriFlex(P)	VVIC	None	None	5 mm Bif BI	#2	PR	PR-7%	PR	PR-7%	C, 7%	
	332T	VentriFlex(R)	VVIC	None	None	5 mm Bif BI	#2	PR	PR	PR	PR-9%	B, 9%	
	340	Miniflex	SSIC	None	None	IS-1 UNI/BI	#2	PR	PR	100 (Nb)	90	B, 10 ppm	
	400	AV Flex	DDDM	None	5 mm UNI	5 mm UNI	#2	PR	PR-4%	PR	PR-4%	C, 4%	
	500	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor x2	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm	



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	502	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor (Common) 3 mm Thermistor	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm		
	503	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor x2	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm		
	504	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor (Common) 3 mm Thermistor	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm		
	513	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor x2	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm		
	514	Kelvin	VVIR	None	None	5 mm UNI Pace/Sense 3 mm Thermistor (Common) 3 mm Thermistor	#2	PR	PR(VVIC)	100 (Nb)	90	B, 10 ppm		

Cook Pacemaker Corp. [Cook Vascular]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	203-04 or A			6 mm	UNI	Wedge	ENDO	SIL	RV
	204-05 or B			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	206-07 or C			6 mm	UNI	Tines	ENDO	SIL	RV
	207-08 or D			5 mm Bif	BI	Tines	ENDO	SIL	RV
	208-09			5 mm	UNI	Tines	ENDO	SIL	RV
	209-10			5 mm	UNI	J+Tines	ENDO	SIL	RA
	210-11			6 mm	UNI	Passive	ENDO	POLY	RV
	211-12			5 mm Bif	BI	Passive	ENDO	SIL	RV
	212-13			5 mm Bif	BI	Passive	ENDO	POLY	RV
	213-14			5 mm	UNI	Passive	ENDO	POLY	RA
	214-15 or E			5/6 mm	UNI	Tines	ENDO	SIL	RV
	215-16 or F			5/6 mm	UNI	Wedge	ENDO	SIL	RV
	218-19 or I			5/6 mm	UNI	J+Tines	ENDO	SIL	RA
	235-36 or Q			5 mm-Pace, 3 mm-Thermistor	UNI	Tines	ENDO	UNK	UNK
	235-36A or Q			5 mm-Pace, 3 mm-Thermistor	UNI	Tines	ENDO	UNK	UNK
	236-37 or R			5 mm-Pace, 3 mm-Thermistor	BI	Tines	ENDO	UNK	UNK
	236-37A or R			5 mm-Pace, 3 mm-Thermistor	BI	Tines	ENDO	UNK	UNK
	K			5 mm-Pace, 3 mm-Thermistor	UNI	Tines	ENDO	UNK	RV



Notes

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	321-100A			3.2 mm C	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	321-100P			3.2 mm C	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	321-101A			3.2 mm C	UNI	Screw	ENDO	SIL	RA
	321-101P			3.2 mm C	UNI	Screw	ENDO	SIL	RA
	321-158			3.2 mm C	UNI	Fins	ENDO	SIL	RV
	321-158P			3.2 mm C	UNI	Fins	ENDO	SIL	RV
	321-159			3.2 mm C	UNI	Tines	ENDO	SIL	RV
	321-159A			3.2 mm C	UNI	Tines	ENDO	SIL	RV
	321-159P			3.2 mm C	UNI	Tines	ENDO	SIL	RV
	321-258			3.2 mm C	BI	Fins	ENDO	SIL	RV
	321-558			3.2 mm C	BI	Tines	ENDO	SIL	RV
	321-748			3.2 mm C	UNI	J+Tines	ENDO	UNK	RA
	321-748P			3.2 mm C	UNI	Tines	ENDO	UNK	RA
	321-749			3.2 mm C	BI	J+Tines	ENDO	UNK	RA
	322-142			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-144			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-145			6 mm	UNI	Fins	ENDO	SIL	RV
	322-146			6 mm	UNI	Fins	ENDO	SIL	RV
	322-152			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-153			6 mm	UNI	Fins	ENDO	SIL	RV
	322-154			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-155			6 mm	UNI	Fins	ENDO	SIL	RV
	322-162			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-163			6 mm	UNI	Fins	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	322-164			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-165			6 mm	UNI	Fins	ENDO	SIL	RV
	322-220			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-245			6 mm	UNI	Fins	ENDO	SIL	RV
	322-256			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-257			6 mm	UNI	Fins	ENDO	SIL	RV
	322-261			6 mm	UNI	None	ENDO	SIL	RV
	322-362			6 mm	UNI	None	ENDO	UNK	UNK
	322-366			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-452			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-462			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-485			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-620			6 mm	UNI	Wedge	ENDO	SIL	RV
	322-621			6 mm	UNI	Fins	ENDO	SIL	RV
	322-745			6 mm	UNI	Tines	ENDO	UNK	RA
	322-764			6 mm	UNI	Fins	ENDO	UNK	RA
	322-765			6 mm	UNI	Tines	ENDO	UNK	RA
	322-769			6 mm	UNI	Tines	ENDO	UNK	RA
	322-820			6 mm	UNI	Wedge	ENDO	SIL	RV
	323-443			6 mm	UNI	Suture	EPI	SIL	RV
	323-451			6 mm	UNI	Suture	EPI	SIL	RV
59	323-543			6 mm	UNI	Suture	EPI	SIL	RV
	323-551			6 mm	UNI	Suture	EPI	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	323-643			6 mm	UNI	Suture	EPI	SIL	UNK
	323-743			6 mm	UNI	Suture	EPI	SIL	RA
	323-751			6 mm	UNI	Suture	EPI	SIL	RA
	323-758			6 mm C	UNI	None	ENDO	SIL	CS
	324-343			6 mm	UNI	Suture	EPI	SIL	RA
	324-351			6 mm	UNI	Suture	EPI	SIL	RA
	324-443			6 mm	UNI	Suture	EPI	SIL	RA
	324-451			6 mm	UNI	Suture	EPI	SIL	RA
	324-543			6 mm	UNI	Suture	EPI	SIL	RV
	324-545			6 mm	UNI	Screw	EPI	SIL	RV
	324-551			6 mm	UNI	Suture	EPI	SIL	RV
	324-556			6 mm	UNI	Self Cutting	EPI	SIL	RV
	324-643			6 mm	UNI	Suture	EPI	SIL	RV
	324-651			6 mm	UNI	Suture	EPI	SIL	RV
	324-758			6 mm C	UNI	None	ENDO	SIL	CS
	324-846			6 mm	UNI	Screw	EPI	SIL	RV
	324-856			6 mm	UNI	Self Cutting	EPI	SIL	RV
	325-100D			5 mm Bif	BI	Tines	ENDO	SIL	RV
	325-101D			6 mm	UNI	Screw	EPI	SIL	RA/RV
	325-102D			6 mm	UNI	Screw	EPI	SIL	RA/RV
	325-105D			6 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	325-106D			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	325-107D			6 mm	UNI	Tines	ENDO	SIL	RV
	325-108D			6 mm	UNI	Tines	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	325-109D			5 mm	UNI	Tines	ENDO	SIL	RV
	325-110D			5 mm	UNI	Tines	ENDO	SIL	RV
	325-111D			6 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	325-112D			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	325-113D			5 mm	UNI	Screw	EPI	SIL	RA/RV
	325-114D			5 mm	UNI	Screw	EPI	SIL	RA/RV
	325-117D			6 mm C	BI	Tines	ENDO	UNK	UNK
	325-118D			6 mm C	BI	Tines	ENDO	UNK	UNK
	325-121			6 mm	UNI	Tines	ENDO	POLY	RA
	325-122			6 mm	UNI	Tines	ENDO	POLY	RA
	325-123			6 mm	UNI	Ex./Ret. Helix	ENDO	UNK	RA/RV
	325-125			6 mm	UNI		UNK	UNK	RV
	325-135D			5 mm	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	325-136D			6 mm	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	325-151			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	325-154			6 mm C	BI	Fins	ENDO	SIL	RV
	325-155			6 mm C	BI	Fins	ENDO	SIL	RV
	325-156			6 mm C	BI	Fins	ENDO	SIL	RV
	325-160			6 mm C	BI	Wedge	ENDO	SIL	RV
	325-161			6 mm C	BI	Fins	ENDO	SIL	RV
	325-162			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	325-163			6 mm C	BI	Fins	ENDO	UNK	UNK
	325-164			6 mm C	BI	Wedge	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	325-165			6 mm C	BI	Fins	ENDO	SIL	RV
	325-248D			3.2 mm C	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	325-252			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	325-252P			3.2 mm C	UNI	Screw	EPI	UNK	UNK
	325-253			6 mm C	BI	Wedge	ENDO	SIL	RV
	325-254			6 mm C	BI	Wedge	ENDO	SIL	RV
	325-258D			3.2 mm C	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	325-262			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	325-263			6 mm C	BI	Wedge	ENDO	SIL	RV
	325-264			6 mm C	BI	Wedge	ENDO	SIL	RV
	325-342				UNI	Tines	ENDO	SIL	RV
	325-352			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-352A			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-352P			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-452			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-452A			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-452P			3.2 mm C	UNI	Suture	EPI	POLY	RA/RV
	325-458D				BI	Screw	UNK	UNK	UNK
	326-168			6 mm	UNI	Fins	ENDO	POLY	RV
	326-352			5 mm	UNI	Suture	EPI	POLY	RV
	326-452			5 mm	UNI	Suture	EPI	POLY	RA/RV
	327-145			6 mm	UNI	Fins	ENDO	POLY	RV
	327-152			6 mm	UNI	Fins	ENDO	POLY	RV
	327-152P			6 mm	UNI	Fins	ENDO	POLY	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	327-155			6 mm	UNI	None	UNK	UNK	UNK
	327-162			6 mm	UNI	Fins	ENDO	POLY	RV
	327-162P			6 mm	UNI	Fins	ENDO	POLY	RV
	327-163P			6 mm	UNI	None	UNK	UNK	UNK
	327-245			6 mm C	BI	Fins	ENDO	POLY	RV
	327-246			6 mm C	BI	Fins	ENDO	POLY	RV
	327-251			6 mm	UNI	None	UNK	UNK	UNK
	327-252			6 mm C	BI	Fins	ENDO	POLY	RV
	327-253			6 mm C	BI	Fins	ENDO	POLY	RV
	327-261			6 mm	UNI	None	UNK	UNK	UNK
	327-262			6 mm C	BI	Fins	ENDO	POLY	RV
	327-263			6 mm C	BI	Fins	ENDO	POLY	RV
	327-345			6 mm	UNI		UNK	UNK	UNK
	327-352			6 mm	UNI		UNK	UNK	UNK
	327-362			6 mm	UNI		UNK	UNK	UNK
	327-445			6 mm	UNI	Passive	ENDO	UNK	UNK
	327-445			6 mm	UNI	Tines	ENDO	POLY	UNK
	327-452			6 mm	UNI	Tines	ENDO	POLY	RV
	327-452P			6 mm	UNI	Tines	ENDO	POLY	RV
	327-462			6 mm	UNI	Tines	ENDO	POLY	RV
	327-462P			6 mm	UNI	Tines	ENDO	POLY	RV
	327-545			6 mm C	BI	Tines	ENDO	POLY	RV
	327-546			6 mm C	BI	Tines	ENDO	POLY	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	327-552			6 mm C	BI	Tines	ENDO	POLY	RV
	327-553			6 mm C	BI	Tines	ENDO	POLY	RV
	327-562			6 mm C	BI	Tines	ENDO	POLY	RV
	327-563			6 mm C	BI	Tines	ENDO	POLY	RV
	327-745			6 mm	UNI	J+Tines	ENDO	POLY	RA
	327-745P			6 mm	UNI	J+Tines	ENDO	POLY	RA
	327-746			6 mm C	BI	J+Tines	ENDO	UNK	RA
	327-747			6 mm C	BI	J+Tines	ENDO	POLY	RA
	327-752			6 mm	UNI	J+Tines	ENDO	POLY	RA
	327-752P			6 mm	UNI	J+Tines	ENDO	POLY	RA
	327-753			6 mm C	BI	J+Tines	ENDO	UNK	RA
	327-754			6 mm C	BI	J+Tines	ENDO	POLY	RA
	327-763			6 mm C	BI	J+Tines	ENDO	UNK	RA
	328-145			5 mm	UNI	Fins	ENDO	POLY	RV
	328-152			5 mm	UNI	Fins	ENDO	POLY	RV
	328-162			5 mm	UNI	Fins	ENDO	POLY	RV
	328-162P			5 mm	UNI	Fins	ENDO	POLY	RV
	328-245			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-246			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-252			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-253			5 mm Linear	BI	Fins	ENDO	POLY	RV
	328-262			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-263			5 mm Linear	BI	Fins	ENDO	POLY	RV
	328-345			5 mm Linear	BI	Tines	ENDO	POLY	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	328-352			5 mm	UNI	Tines	ENDO	POLY	RV
	328-362			5 mm	UNI	Tines	ENDO	POLY	RV
	328-362P			5 mm	UNI	Tines	ENDO	POLY	RV
	328-445			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-446			5 mm	UNI		UNK	UNK	UNK
	328-452			5 mm Bif	BI	Fins	ENDO	POLY	RV
	328-453			5 mm	UNI		UNK	UNK	UNK
	328-462			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-463			5 mm	UNI		UNK	UNK	UNK
	328-545			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-546			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-552			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-553			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-562			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-563			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-645			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-646			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-652			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-653			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-662			5 mm Bif	BI	Tines	ENDO	POLY	RV
	328-663			5 mm Bif	BI	Tines	ENDO	POLY	RV
65	328-745			5 mm	UNI	Tines	ENDO	UNK	RA
	328-746			5 mm Bif	BI	Tines	ENDO	UNK	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	328-747			5 mm Linear	BI	Tines	ENDO	UNK	RA
	328-751			5 mm	UNI		UNK	UNK	UNK
	328-752			5 mm	UNI	J+Tines	ENDO	POLY	RA
	328-752P			5 mm	UNI	Tines	ENDO	POLY	RA
	328-753			5 mm Bif	BI	Tines	ENDO	UNK	RA
	328-754			5 mm Linear	BI	Tines	ENDO	UNK	RA
	328-756			5 mm	UNI	Tines	ENDO	UNK	RA
	329-100			3.2 mm C	UNI	Screw	ENDO	POLY	RA/RV
	329-100A			3.2 mm C	UNI	Ex./Ret. Helix	ENDO	POLY	RA/RV
	329-100P			3.2 mm C	UNI	Screw	ENDO	POLY	RA/RV
	329-101A			3.2 mm C	UNI	Screw	ENDO	POLY	RA
	329-101P			3.2 mm C	UNI	Screw	ENDO	POLY	RA/RV
	329-152			3.2 mm C	UNI	Fins	ENDO	UNK	RV
	329-153			3.2 mm C	UNI	Tines	ENDO	UNK	RV
	329-156			3.2 mm C	UNI		UNK	UNK	UNK
	329-157			3.2 mm C	UNI		UNK	UNK	UNK
	329-158			3.2 mm C	UNI	Fins	ENDO	POLY	RV
	329-158A			3.2 mm C	UNI	Fins	ENDO	POLY	RV
	329-158P			3.2 mm C	UNI	Fins	ENDO	POLY	RV
	329-159			3.2 mm C	UNI	Tines	ENDO	POLY	RV
	329-159A			3.2 mm C	UNI	Tines	ENDO	POLY	RV
	329-159P			3.2 mm C	UNI	Tines	ENDO	POLY	RV
	329-162			3.2 mm C	UNI	Fins	ENDO	UNK	RV
	329-163			3.2 mm C	UNI	Tines	ENDO	UNK	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	329-180			3.2 mm C	UNI		UNK	UNK	UNK
	329-200			3.2 mm C	BI	Screw	ENDO	UNK	RA/RV
	329-201			3.2 mm C	BI	Screw	ENDO	UNK	RV
	329-252			3.2 mm C	BI	Fins	ENDO	POLY	RV
	329-253			3.2 mm C	BI	Tines	ENDO	POLY	RV
	329-256			3.2 mm C	BI		UNK	UNK	UNK
	329-257			3.2 mm C	BI		UNK	UNK	UNK
	329-258			3.2 mm C	BI	Fins	ENDO	POLY	RV
	329-259			3.2 mm C	BI	Tines	ENDO	POLY	RV
	329-262			3.2 mm C	BI	Fins	ENDO	UNK	RV
	329-263			3.2 mm C	BI	Tines	ENDO	UNK	RV
	329-300P			3.2 mm C	BI	Screw	UNK	POLY	UNK
	329-358			3.2 mm C	UNI		UNK	UNK	UNK
	329-359			3.2 mm C	UNI		UNK	UNK	UNK
	329-701			3.2 mm C	BI	J+Screw	ENDO	UNK	RA
	329-745			3.2 mm C		J+Tines	ENDO	UNK	RA
	329-746			3.2 mm C	BI	Tines	ENDO	UNK	RA
	329-748			3.2 mm C	UNI	J+Tines	ENDO	POLY	RA
	329-748A			3.2 mm C	UNI	Tines	ENDO	POLY	RA
	329-748P			3.2 mm C	UNI	Sawtooth Tines	ENDO	POLY	RA
	329-749			3.2 mm C	BI	J+Tines	ENDO	POLY	RA
	329-752			3.2 mm C	UNI	J+Tines	ENDO	UNK	RA
	329-753			3.2 mm C	BI	Tines	ENDO	UNK	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location		
	Number	Name								
low-voltage leads	329-754			3.2 mm C	BI	Tines	ENDO	UNK	RA	
	329-755A			3.2 mm C	UNI	Tines	ENDO	UNK	RA	





Notes

ELA Medical, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	60	Stilith	VVI	None	None	5 mm UNI	#6	72	67	72 (Kb)	67	C, 5 ppm, J		
	61	Stilith	VVI	None	None	5 mm UNI	#6	72	67	72 (Kb)	67	C, 5 ppm, J		
	112	Brio	SSIR	ELA112	None	IS-1 UNI/BI	#2	PR	70	96	80	D		
	113	Talent	SSIR	ELA113	None	IS-1 UNI/BI	#2	PR	70	96	80	D		
	120	Stilith	VVI	None	None	5 mm UNI	#6	72	67	72 (Kb)	67	C, 5 ppm, J		
	128	Stilith	VVI	None	None	5 mm UNI	#6	72	67	72 (Kb)	67	C, 5 ppm, J		
	133	Talent II SR	SSIR	ELA133	None	IS-1 UNI/BI	#2	PR	SSI 70	96	80	C, Mode and rate change to SSI-70		
	210	Talent D	DDD	ELA210	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	212	Brio	DDDR	ELA212	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	70	96	80	D		
	213	Talent	DDDR	ELA213	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	70	96	80	D		
	220	Brio	DDD	ELA220	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	70	96	80	D		
	222	Brio	DDDR	ELA222	IS-1 BI	IS-1 BI	#2	PR	70	96	80	D		
	223	Talent	DDDR	ELA223	IS-1 BI	IS-1 BI	#2	PR	70	96	80	D		
	230	Talent II D	DDD	ELA230	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	233	Talent II DR	DDDR	ELA233	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	243	Talent AF DR	DDDR	ELA243	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	253	Talent 3 DR	DDDR	ELA253	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	263	Talent 3 VDR	VDDR	ELA263	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
70	1140	Multilith I	VVI	ELAM1	None	5 mm UNI	#6	PR	PR	86	77	B, 9 ppm		



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	1141	Multilith I	VVI	ELAM1	None	5 mm UNI	#6	PR	PR	86	77	B, 9 ppm		
	1250	Multilith II	VVI	ELAM2	None	5 mm UNI	#2	PR	PR	86	77	B, 9 ppm		
	1251	Multilith II	VVI	ELAM2	None	5 mm UNI	#2	PR	PR	86	77	B, 9 ppm		
	1350	Multilith III	VVI	ELA1350	None	5 mm UNI	#2	PR	PR	86	77	B, 9 ppm		
	1370	Multilith III	VVI	1370	None	5 mm UNI	#2	PR	PR	86	77	B, 9 ppm		
	2001	Opus	SSIC	ELA2001	None	5 mm UNI	#2	PR	PR	96	80/70	A, 96-80-70		
	2003	Opus	SSIC	ELA2003	None	IS-1 UNI	#2	PR	PR	96	80/70	A, 96-80-70		
	2004	Opus	SSIC	ELA2004	None	IS-1 BI	#2	PR	PR	96	80/70	A, 96-80-70		
	2140	Multilith I	VVIM	ELAM1B	None	5 mm Bif BI	#6	PR	PR	86	77	B, 9 ppm		
	2210	Rhapsody SR	SSIR	ELA	None	IS-1 UNI/BI	#2	PR	SSI 70	96	80	C, Mode and rate change to SSI-70		
	2250	Multilith II	VVIM	ELAM2	None	5 mm Bif BI	#2	PR	PR	86	77	B, 9 ppm		
	2251	Multilith III	VVIM	ELAM2WT	None	5 mm Bif BI	#2	PR	PR	86	77	B, 9 ppm		
	2350	Symphony VDR	VDDR	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	2410	Rhapsody D	DDD	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	2450	Symphony D	DDD	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	2510	Rhapsody DR	DDDR	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	2530	Rhapsody+ DR	DDDR	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	2550	Symphony DR	DDDR	ELA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		

ELA Medical, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	3001	Opus	SSIC	ELA3001	None	5 mm UNI	#2	PR	PR	96	80/70	A, 96-80-70	
	3003	Opus	SSIC	ELA3003	None	VS-1 UNI	#2	PR	PR	96	80/70	A, 96-80-70	
	3004	Opus	SSIC	ELA3004	None	VS-1 BI	#2	PR	PR	96	80/70	A, 96-80-70	
	3350	Multilith III	VVIM	ELA3350	None	VS-1A BI	#2	PR	PR	86	77	B, 9 ppm	
	3370	Multilith III	VVIM	ELA3370	None	VS-1A BI	#2	PR	PR	86	77	B, 9 ppm	
	3371		DDDM	None	5 mm UNI	5/6 mm UNI	#2	PR	PR	90	80	B, 90-80, J	
	4001	Opus	SSIC	ELA4001	None	5 mm UNI	#2	PR	PR	96	80	D	
	4003	Opus	SSIC	ELA4003	None	VS-1 UNI	#2	PR	PR	96	80	D	
	4004	Opus	SSIC	ELA4004	None	VS-1B UNI/BI	#2	PR	PR	96	80	D	
	4006	Opus	SSI	ela 4006	None	6 mm BI	#2	PR	PR	96	80	D	
	4021	Opus	SSIC	ELA4021	None	5 mm UNI	#2	PR	PR	96	80	D	
	4023	Opus	SSIC	ELA4023	None	VS-1 UNI	#2	PR	PR	96	80	D	
	4024	Opus	SSIC	ELA4024	None	VS-1A BI	#2	PR	PR	96	80	D	
	4033	Opus	SSIC	ELA4033	None	VS-1 UNI	#2	PR	PR	96	80	D	
	4034	Opus	SSIC	ELA4034	None	VS-1B UNI/BI	#2	PR	PR	96	80	D	
	4121	Opus S	SSIC	ELA4121	None	5/6 mm UNI	#2	PR	PR	96	80	D	
	4124	Opus S	SSIC	ELA4124	None	VS-1 UNI/BI	#2	PR	PR	96	80	D	
	4534	Opus RM	SSIR	ELA4534	None	VS-1B UNI/BI	#2	PR	PR	96	80	D	
	4621	Opus G	SSIR	ela 4621	None	5/6 mm UNI	#2	PR	PR	96	80	C	
	4624	Opus G	SSIR	ela 4624	None	IS-1 UNI/BI	#2	PR	PR	96	80	C	
	6001	Chorus	DDDC	ELA6001	5 mm UNI	5 mm UNI	#2	PR	PR	96	80	D	
	6003	Chorus	DDDC	ELA6003	VS-1 UNI	VS-1 UNI	#2	PR	PR	96	80	D	
	6004	Chorus	DDDC	ELA6004	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	96	80	D	
	6005	Chorus	DDDC	ELA6005	VS-1 UNI/BI	VS-1 UNI	#2	PR	PR	96	80	D	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	6033	Chorus	DDDC	ELA6033	VS-1 UNI	VS-1 UNI	#2	PR	PR	96	80	D		
	6034	Chorus	DDDC	ELA6034	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	96	80	D		
	6035	Chorus	DDDC	ELA6035	VS-1 UNI/BI	VS-1 UNI	#2	PR	PR	96	80	D		
	6043	Chorus	DDD	ela 6043	IS-1 comp UNI	IS-1 comp UNI	#2	PR	PR	96	80	C		
	6103	Chorus	DDD	ela 6103	IS-1 comp UNI	IS-1 comp UNI	#2	PR	PR	96	80	C		
	6234	Chorus II	DDD	ela 6234	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	96	80	C		
	6244	Chorus II	DDD	ela 6244	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	96	80	C		
	7034	Chorus RM	DDDR	ELA7034	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	96	80	D		
	7134	Chorus RM	DDDR	ELA7134	VS-1B BI	VS-1B BI	#2	PR	PR	96	80	D		
	7234	Chorum	DDDR	ela 7234	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	VVI 70	96	80	C		
73	7334	Chorum	DDDR	ela 7334	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	7434	Chorum	VDDR	ela 7434	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70		
	7520	Unilith 2	VVIM	ELAU2	None	5 mm UNI	#6	72	66	72	66	C, 6 ppm, J		
	7522	Unilith 2	VVIM	ELAU2B	None	5 mm Bif BI	#2	72	66	72	66	C, 6 ppm, J		
	7530	Unilith	VVI	None	None	5 mm UNI	#6	72	67	72	67	C, 5 ppm, J		
	7532	Unilith	VVI	None	None	5 mm Bif BI	#6	72	67	72	67	C, 5 ppm, J		
	7540	Unilith	VVI	None	None	5 mm UNI	#6	72	67	72	67	C, 7.5 ppm, J		
	7542	Unilith	VVI	None	None	5 mm Bif BI	#6	72	67	72	67	C, 7.5 ppm, J		
	7550	Unilith	VVIM	ELAU2	None	5 mm UNI	#2	72	68	72	68	C, J		
	7552	Unilith	VVIM	ELAU2B	None	5 mm Bif BI	#2	72	68	72	68	C, J		
73	7580	Unilith 3	VVI	7580	None	5 mm UNI	#2	72	68	72	68	C, J		
	7583	Unilith 3	VVI	7583	None	VS-1 BI	#2	72	68	72	68	C, J		

ELA Medical, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	7680	Unilith 3	VVI	ela 7680	None	5 mm UNI	#2	72	68	72	68	C, J		
	7683	Unilith 3	VVI	ela 7683	None	VS-1 BI	#2	72	68	72	68	C, J		
	7730	Unilith	VVI	n/a	None	5 mm UNI	#6	72	68	72	68	C		
	7760	Unilith	VVIM	ELAU2	None	5 mm UNI	#2	72	68	72	68	C, J		
	7762	Unilith	VVIM	ELAU2B	None	5 mm Bif BI	#2	72	68	72	68	C, J		



CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage CRT devices	353	Talent 3 MSP	DDDR	ela 353	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	
	363	Talent 3 MSP	DDDR	ela 363	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	
	343	Talent AF MSP	DDDR	ela 343	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	
	313	Talent MSP	DDDR	ela 313	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	
	7336	Chorum MSP	DDDR	ela 7336	IS-1 UNI/BI	None	IS-1 UNI	IS-1 UNI	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	
	7337	Chorum MSP	DDDR	ela 7337	IS-1 UNI/BI	IS-1 UNI	IS-1 UNI	None	#2	PR	VVI 70	96	80	C, Mode and rate change to VVI-70	

ELA Medical, Inc.

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	612	Defender IV (DR)	VVED	ela612	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage ≤ 4.9 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	614	Alto DR	VVED	ela614	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage ≤ 4.86 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	615	Alto VR	VVED	ela615	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage ≤ 4.86 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	624	Alto 2 DR	VVED	ela624	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage ≤ 4.86 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	625	Alto 2 VR	VVED	ela625	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage ≤ 4.86 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	6250	Ovatio VR	VVEV		None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	
	6550	Ovatio DR	VVED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	
	9201	Defender II	VVED	ELA9201	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage ≤ 4.9 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI
	9301	Defender III	VVED	ELA9302	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage ≤ 4.9 V Magnet Rate ≤ 80 ppm Programmer Indicates ERI

CRT-D

high-
voltage
CRT
devices

Model Number	Name	NBD Code	X-ray ID	Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator
				RA	RV	LV	HV			
617	Alto MSP	VVED	ela617	IS-1 BI	IS-1 BI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 4.86 V Magnet Rate $\leq$ 80 ppm Programmer Indicates ERI
627	Alto 2 MSP	VVED	ela627	IS-1 BI	IS-1 BI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 4.86 V Magnet Rate $\leq$ 80 ppm Programmer Indicates ERI

ELA Medical, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	BA3060	n/a		ELA Stanium	BI	Wedge	ENDO	UNK	UNK
	BJ44	Stela		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJ44D	Stela		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJ45	Stela		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJ45D	Stela		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJF24D	Stelid II		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJF24D	Stelid II		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJF25D	Stelid II		IS-1	BI	J+Tines	ENDO	UNK	RA
	BJF25D	Stelid II		IS-1	BI	J+Tines	ENDO	UNK	RA
	BR45D	Stelid		IS-1	BI	Ext/Ret Screw	ENDO	UNK	UNK
	BR46D	Stelid		IS-1	BI	Ext/Ret Screw	ENDO	UNK	UNK
	BRA3060	n/a		ELA	BI	Wedge	ENDO	UNK	UNK
	BRF25D	Stelix II		IS-1	BI	Ext/Ret Screw	ENDO	UNK	UNK
	BRF26D	Stelix II		IS-1	BI	Ext/Ret Screw	ENDO	UNK	UNK
	BS45	Stela		IS-1	BI	Screw	UNK	UNK	UNK
	BS45D	Selid		IS-1	BI	Screw	UNK	UNK	UNK
	BT45	Stela		IS-1	BI	Tines	ENDO	UNK	RV
	BT45D	Stelid		IS-1	BI	Passive	UNK	UNK	RV
	BT46	Stela		IS-1	BI	Tines	ENDO	UNK	RV
	BT46D	Stelid		IS-1	BI	Passive	UNK	UNK	RV
	BTF25D	Stelid II		IS-1	BI	Tines	ENDO	UNK	RV
	BTF26D	Stelid II		IS-1	BI	Tines	ENDO	UNK	RV
	FBAF	n/a		5 mm Bif	BI	Tines	ENDO	UNK	RV
	HMO	n/a		5 mm	UNI	Screw/Wedge	ENDO	UNK	UNK

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	J43F	Focus		IS-1	UNI	J+Tines	ENDO	UNK	RA
	J83F	Focus		IS-1	UNI	J+Tines	ENDO	SIL	RA
	MA2260	n/a		ELA Stanium	UNI	Wedge	ENDO	UNK	RV
	MA2280	n/a		ELA Stanium	UNI	Wedge	ENDO	UNK	RV
	MAM1260	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MAM1290	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MCF860	n/a		5 mm	UNI	Tines	ENDO	UNK	RV
	MDM1060	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MDM1090	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MVM1260	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MVM1290	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MVM860	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	MVM890	n/a		5 mm	UNI	Wedge	ENDO	SIL	RV
	NAM1260	n/a		5 mm	UNI	Wedge	ENDO	UNK	RV
	P 752	ELAPass P		IS-1	BI	Tines	ENDO	UNK	RV
	P 758	ELAPass P		IS-1	BI	Tines	ENDO	UNK	RV
	P1 844	ELAFix P1		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P1 848	ELAFix P1		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P1 852	ELAFix P1		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P1 858	ELAFix P1		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P2 744	ELAFix P2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P2 748	ELAFix P2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P2 752	ELAFix P2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	P2 758	ELAFix P2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV

ELA Medical, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	PBAF860	n/a		5 mm Bif	BI	Tines	ENDO	UNK	RV
	PBCF860	n/a		5 mm Bif	BI	Tines	ENDO	UNK	RV
	PICF860	n/a		IS-1	BI	Tines	ENDO	UNK	RV
	PJ 744	ELAPass PJ		IS-1	BI	Tines	ENDO	UNK	RA
	PJ 748	ELAPass PJ		IS-1	BI	Tines	ENDO	UNK	RA
	PJ 752	ELAPass PJ		IS-1	BI	Tines	ENDO	UNK	RA
	PMA860	n/a		5 mm	UNI	Tines	ENDO	SIL	RV
	PMAF860	n/a		5 mm	UNI	Tines	ENDO	UNK	RV
	PMC860	n/a		5 mm	UNI	Tines	ENDO	UNK	RV
	PMCF860	n/a		5 mm	UNI	Tines	ENDO	UNK	RV
	R 752	ELAPass R		IS-1	BI	Tines	ENDO	UNK	RV
	R 758	ELAPass R		IS-1	BI	Tines	ENDO	UNK	RV
	RA500	n/a		ELA	BI	UNK	UNK	UNK	UNK
	RJ 744	ELAPass RJ		IS-1	BI	Tines	ENDO	UNK	RA
	RJ 748	ELAPass RJ		IS-1	BI	Tines	ENDO	UNK	RA
	RJ 752	ELAPass RJ		IS-1	BI	Tines	ENDO	UNK	RA
	S2 753	ELAFix S2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	S2 758	ELAFix S2		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RV
	S2J 744	ELAFix S2J		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RA
	S2J 748	ELAFix S2J		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RA
	S2J 752	ELAFix S2J		IS-1	BI	Ext/Ret Screw	ENDO	UNK	RA
	S83F	Focus		IS-1	UNI	Fixed Screw	ENDO	SIL	RA/RV
	SA500	n/a		ELA Stanium	UNI	UNK	UNK	UNK	UNK
	T43	Focus		IS-1	UNI	Tines	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	T43F	Focus		IS-1	UNI	Tines	ENDO	SIL	RV
	T44	Focus		IS-1	BI	Tines	ENDO	UNK	RV
	T44F	Focus		IS-1	BI	Tines	ENDO	SIL	RV
	T81	Focus		5 mm	UNI	Tines	ENDO	SIL	RV
	T81F	Focus		5 mm	UNI	Tines	ENDO	SIL	RV
	T82F	Focus		5 mm Bif	BI	Tines	ENDO	SIL	RV
	T83	Focus		IS-1	UNI	Tines	ENDO	SIL	RV
	T83F	Focus		IS-1	UNI	Tines	ENDO	SIL	RV
	T84F	Focus		IS-1	BI	Tines	ENDO	SIL	RV
	UC28D	Situs LV		IS-1	UNI	Passive	ENDO	UNK	CS
	UJ45	Stela		IS-1	UNI	J+Tines	ENDO	UNK	RA
	UJ45D	Stelid		IS-1	UNI	J+Tines	ENDO	UNK	RA
	UL28D	Situs LV		IS-1	UNI	Passive	ENDO	UNK	CS
	UR45D	Stelix		IS-1	UNI	Ext/Ret Screw	ENDO	UNK	UNK
	UR46D	Stelix		IS-1	UNI	Ext/Ret Screw	ENDO	UNK	UNK
	URF25D	Stelix II		IS-1	UNI	Ext/Ret Screw	ENDO	UNK	UNK
	URF26D	Stelix II		IS-1	UNI	Ext/Ret Screw	ENDO	UNK	UNK
	US45	Stela		IS-1	UNI	Screw	UNK	UNK	UNK
	US45D	Stelid		IS-1	UNI	Screw	UNK	UNK	UNK
	UT40	Stela		IS-1	UNI	Tines	ENDO	UNK	RV
	UT45	Stela		IS-1	UNI	Tines	ENDO	UNK	RV
	UT45D	Stelid		IS-1	UNI	Tines	ENDO	UNK	RV
	UT46	Stela		IS-1	UNI	Tines	ENDO	UNK	RV
	UT46D	Stelid		IS-1	UNI	Tines	ENDO	UNK	RV

ELA Medical, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location		
	Number	Name								
low-voltage leads	UTF25D	Stelid II		IS-1	UNI	Tines	ENDO	UNK	RV	
	UTF26D	Stelid II		IS-1	UNI	Tines	ENDO	UNK	RV	
	UW28D	Situs OTW		IS-1	UNI	Silicone screw	ENDO	UNK	UNK	





HV high-voltage leads	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
	4040	Swift 1CT		IS-1 BI	DF-1 (1 pin)						
	4041	Swift 1CT		IS-1 BI	DF-1 (1 pin)						
4042	Swift 1CT			IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	

Enpath Medical, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	511111	Myopore		IS-1	UNI	Screw	EPI	SIL	RA/RV
	511112	Myopore		IS-1	UNI	Screw	EPI	SIL	RA/RV
	511210	Myopore		IS-1	BI	Screw	EPI	SIL	RA/RV
	511211	Myopore		IS-1	BI	Screw	EPI	SIL	RA/RV
	511212	Myopore		IS-1	BI	Screw	EPI	SIL	RA/RV





Notes

Guidant Corp.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	1000	RS4 (Aa)	VDD	CPI 1000		4.75 mm Tripolar	#6	65	65	85	79	D	
	101	Maxilith	VOO	CPI 101	None	6 mm UNI	#6	72	-6 ppm			C	
	1100	Precept VR (Aa)	SSIR	CPI 1100	None	Tripolar 3.2 mm	#2	PR	PR	100 (DOO)	85 (DOO)	D	
	1118	Excel VR (Aa)	SSIR	CPI 1118	None	5/6 mm UNI	#2	PR	PR	100 (DOO)	85 (DOO)	D	
	1119	Excel VR (Aa)	SSIR	CPI 1119	None	3.2 mm LP UNI/BI	#2	PR	PR	100 (DOO)	85 (DOO)	D	
	1120	Excel VR (Aa)	SSIR	CPI 1123	None	3.2 mm LP BI	#2	PR	PR	100 (DOO)	85 (DOO)	D	
	1123	Triumph VR	SSIR	CPI 3	None	IS-1 UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Pb	
	1124	Triumph VR	SSIR	CPI 0	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Pb	
	1125	Triumph VR	SSIR	CPI 1	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Pb	
	1126	Triumph VR	SSIR	CPI 2	None	5 mm Bif BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Pb	
	1130	Vigor SR	SSIR	CPI 1130	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR (SSI)	100 (SOO)	90/85 (SOO)	A, Nb	
	1135	Vigor SR	SSIR	CPI 1135	None	5/6 mm UNI	#2	PR	PR (SSI)	100 (SOO)	90/85 (SOO)	A, Nb	
	1170	Pulsar Max SR(Aa)	SSIR	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1171	Pulsar Max SR(Aa)	SSIR	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	1172	Pulsar SR(Aa)	SSIR	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1174	Discovery SR	SSIR	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1175	Discovery SR	SSIR	CPI 001	None	5/6 mm UNI	#2	PR	PR	100	85	S	
	1176	Meridian SR	SSIR	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1180	Pulsar Max II SR	SSIR	GDT 002	None	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1181	Pulsar Max II SR	SSIR	GDT 002	None	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1184	Discovery II SR	SSIR	GDT 002	None	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1186	Discovery II SR	SSIR	GDT 002	None	3.2 mm LP Medtronic (IS-1 Compatible) UNI/BI	#2	PR	PR	100	85	S	
	1187	Discovery II SR	SSIR	GDT 002	None	5 mm Bif UNI/BI	#2	PR	PR	100	85	S	
	1194	Insignia I Plus SR	SSIR	GDT 003	None	IS-1 UNI/BI	#2	PR	PR	100	90/85	A	
	1195	Insignia I Entra SR	SSIR	GDT 003	None	5/6 mm UNI	#2	PR	PR	100	90/85	A	
	1198	Insignia I Entra SR	SSIR	GDT 003	None	3.2 mm LP Medtronic (IS-1 Compatible) UNI/BI	#2	PR	PR	100	90/85	A	

Guidant Corp.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	1200 (Aa)	Precept DR	DDDR	CPI 1200	3.2 mm UNI/BI	3.2 mm Tripolar	#2	PR	PR	100 (DOO)	85 (DOO)	D	
	1223	Triumph DR	DDD(R)	CPI 6	IS-1 UNI	IS-1 UNI	#2	PR	PR (DDDR), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	
	1224	Triumph DR	DDD(R)	CPI 4	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR (DDDR), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	
	1225	Triumph DR	DDD(R)	CPI 5	5/6 mm UNI	5/6 mm UNI	#2	PR	PR (DDDR), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	
	1226	Prelude DR	DDDR	CP1 7	BI	3.2 mm LP MDT (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	
	1227	Prelude DR	DDDR	CPI 8	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	
	1229	Prelude DR	DDDR	CPI 9	IS-1 UNI	IS-1 UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	
	1230	Vigor DR	DDDR	CPI 1230	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR (DDD)	100 (DOO)	90/85 (DOO)	A, Nb	
	1232	Vigor DR	DDDR	CPI 1232	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR (DDD)	100 (DOO)	90/85 (DOO)	A, Nb	
	1235	Vigor DR	DDDR	CPI 1235	5/6 mm UNI	5/6 mm UNI	#2	PR	PR (DDD)	100 (DOO)	90/85 (DOO)	A, Nb	
	1240	Vigor CHF (Aa)	DDDR	CPI 1240	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR (DDD)	100 (DOO)	90/85 (DOO)	A, Nb	
	1270	Pulsar Max DR (Aa)	DDDR	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1272	Pulsar DR (Aa)	DDDR	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	1273	Discovery DR	DDDR	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1274	Discovery DR	DDDR	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1275	Discovery DR	DDDR	CPI 001	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100	85	S	
	1276	Meridian DR	DDDR	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1280	Pulsar Max II DR	DDDR	GDT 002	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1283	Discovery II DR	DDDR	GDT 002	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1284	Discovery II DR	DDDR	GDT 002	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR	100	85	S	
	1286	Discovery II DR	DDDR	GDT 002	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	1294	Insignia I Entra DR	DDDR	GDT 003	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR	100	90/85	A	
	1295	Insignia I Entra DR	DDDR	GDT 003	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100	90/85	A	
	1296	Insignia I Entra DR	DDDR	GDT 003	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR	100	90/85	A	
	1297	Insignia I Plus DR	DDDR	GDT 003	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR	100	90/85	A	
	1298	Insignia I Plus DR	DDDR	GDT 003	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PR	100	90/85	A	

Guidant Corp.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	201	Maxilith	VOO	CPI 201	None	5 mm Bif BI	#6	72	-6 ppm			C		
	301	Maxilith	VVI	CPI 301	None	6 mm UNI	#6	72	-6 ppm	86	-6 ppm	C		
	401	Maxilith	VVI	CPI 401	None	5 mm Bif BI	#6	72	-6 ppm	86	-6 ppm	C		
	427	Astra 2	VVIC	CPI 427	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	428	Astra 4	VVIC	CPI 428	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	429	Astra 6	SSIC	CPI 429	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	437	Astra T2	VVIC	CPI 437	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	438	Astra T4	VVIC	CPI 438	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	439	Astra T6	SSIC	CPI 439	None	3.2 mm LP BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	443	Vista 4	VVIC	CPI 443	None	VS-1B (IS-1 Compatible) UNI Pace UNI/BI Sense	#2	PR	PR	100	85	D		
	444	Vista 6	SSIC	CPI 444	None	VS-1B (IS-1 Compatible) UNI Pace UNI/BI Sense	#2	PR	PR	100	85	D		
	445	Vista T	SSIC	CPI 445	None	VS-1B (IS-1 Compatible) UNI Pace UNI/BI Sense	#2	PR	PR	100	85	D		
	446	Vista T	SSIC	CPI 446	None	3.2 mm LP BI	#2	PR	PR	100	85	D		
	447	Vista T	SSIC	CPI 447	None	5/6 mm UNI	#2	PR	PR	100	85	D		
	460	Vigor SSI	SSIC	CPI 460	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	90/85	A		
	465	Vigor SSI	SSIC	CPI 465	None	5/6 mm UNI	#2	PR	PR	100	90/85	A		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	470	Pulsar SSI(Aa)	SSIC	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	476	Meridian SSI	SSIC	CPI 001	None	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	501	Minilith	VVI	CPI 501	None	6 mm UNI	#6	72	66	86	80	C	
	502	Minilith	VVI	CPI 502	None	6 mm UNI	#6	72	66	86	80	C	
	503	Minilith	VVI	CPI 503	None	6 mm UNI	#6	72	66	86	80	C	
	504	Minilith	VVI	CPI 504	None	6 mm UNI	#6	72	66	86	80	C	
	505	Microlith P	VVI	CPI 505	None	6 mm UNI	#6	PR	PR	100	90/85	A, 100-90-85	
	507	Microlith D	VVI	CPI 507	None	6 mm UNI	#6	72	66	86	80	C	
	508	Minilith	VVI	CPI 508	None	6 mm UNI	#6	72	66	86	80	C	
	509	Microlith DX	VVI	CPI 509	None	6 mm UNI	#6	72	66	86	80	C	
	520	Microthin D1	VVI	CPI 520	None	6 mm UNI	#6	72	66	86	80	C	
	521	Microthin D2	VVI	CPI 521	None	6 mm UNI	SD	72	66	86	80	C	
	522	Microthin P1	VVIP	CPI 522	None	6 mm UNI	#6 or SD	PR	PR	100	90/85	A, 100-90-85	
	523	Microthin P2	VVIP	CPI 523	None	6 mm UNI	SD	PR	PR	100	90/85	A, 100-90-85	
	525	Command NP	VVI	CPI 525	None	6 mm UNI	#2	PR	PR	100	90/85	A, 100-90-85	
	527	Astra 2	VVIC	CPI 527	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	528	Astra 4	VVIC	CPI 528	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	529	Astra 6	SSIC	CPI 529	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	530	Command P5	SSIC	CPI 530	None	6 mm UNI	#2 or SD	PR	PR	100	90/85	A, 100-90-85	

Guidant Corp.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	531	Ultra I	SSIC	CPI 531	None	6 mm UNI	#2	PR	PR-11%	100	85	B, 11% w/out magnet, D, 15 ppm w/mag.		
	537	Astra T2	VVIC	CPI 537	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	538	Astra T4	VVIC	CPI 538	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	539	Astra T6	SSIC	CPI 539	None	6 mm UNI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	601	Minilith	VVI	CPI 601	None	5 mm Bif BI	#6	72	-6 ppm	86	-6 ppm	C		
	602	Minilith	VVI	CPI 602	None	5 mm Bif BI	#6	72	-6 ppm	86	-6 ppm	C		
	603	Minilith	VVI	CPI 603	None	5 mm Bif BI	#6	72	66	86	80	C		
	604	Minilith	VVI	CPI 604	None	5 mm Bif BI	#6	72	66	86	80	C		
	605	Microlith P	VVIP	CPI 605	None	5 mm Bif BI	#6	PR	PR	100	90/85	A, 100-90-85		
	607	Microlith D	VVI	CPI 607	None	5 mm Bif BI	#6	72	66	86	80	C		
	608	Minilith 3	VVI	CPI 608	None	5 mm Bif BI	#6	72	66	86	80	C		
	609	Microlith DX	VVI	CPI 609	None	5 mm Bif BI	#6	72	66	86	80	C		
	620	Microthin D1	VVI	CPI 620	None	5 mm Bif BI	#6	72	66	86	80	C		
	621	Microthin D2	VVI	CPI 621	None	5 mm Bif BI	SD	72	66	86	80	C		
	622	Microthin P1	VVIP	CPI 622	None	5 mm Bif BI	#6 or SD	PR	PR	100	90/85	A, 100-90-85		
	623	Microthin P2	VVIP	CPI 623	None	5 mm Bif BI	SD	PR	PR	100	90/85	A, 100-90-85		
	625	Command NP	VVI	CPI 625	None	5 mm Bif BI	#2	PR	PR	100	90/85	A, 100-90-85		
	627	Astra 2	VVIC	CPI 627	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	628	Astra 4	VVIC	CPI 628	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		
	629	Astra 6	SSIC	CPI 629	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	630	Command P5	SSIM	CPI 630	None	5 mm Bif BI	#2 or SD	PR	PR	100	90/85	A, 100-90-85	
	631	Ultra I	SSIC	CPI 631	None	5 mm Bif BI	#2	PR	PR-11%	100	85	B, 11% w/out magnet, D, 15 ppm w/mag.	
	635	Ultra I	SSIC	CPI 635	None	3.2 mm LP BI	#2	PR	PR-11%	100	85	B, 11% w/out magnet, D, 15 ppm w/mag.	
	637	Astra T2	VVIC	CPI 637	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	638	Astra T4	VVIC	CPI 638	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	639	Astra T6	SSIC	CPI 639	None	5 mm Bif BI	#2	PR	PR-12.5%	100	87.5	B, 12.5%	
	702	Minilith	VOO	CPI 702	None	6 mm UNI	#6	72	-6 ppm			C	
	703	Microlith A	VOO	CPI 703	None	6 mm UNI	#6	72	-6 ppm			C	
	802	Minilith	VOO	CPI 802	None	5 mm Bif BI	#6	72	-6 ppm			C	
	803	Microlith A	VOO	CPI 703	None	5 mm Bif BI	#6	72	-6 ppm			C	
	870	Pulsar VDD(Aa)	VDDC	CPI 001		VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S	
	910	Ultra II	VDDC	CPI 910	5 mm UNI	5 mm UNI	#2	PR	PR-11%	100	85	B, 11% w/out magnet, D, 15 ppm w/mag.	
	925	Delta	DDDC	CPI 925	3.2 mm LP UNI/BI	3.2 mm LP UNI/BI	#2	PR	PR	96 (VOO)	90 (VOO)	D	
	926	Delta T	DDDC	CPI 926	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	#2	PR	PR	100 (DOO)	85 (DOO)	D	

Guidant Corp.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	927	Delta TRS	DDDC	CPI 927	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	928	Delta TRS	DDDC	CPI 928	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	936	Delta T	DDDC	CPI 936	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	937	Delta TRS	DDDC	CPI 937	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	938	Delta TRS	DDDC	CPI 938	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	940	Vista DDD	DDDC	CPI 940	3.2 mm LP BI	3.2 mm LP BI	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	941	Vista DDD	DDDC	CPI 941	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	VS-1B (IS-1 Compatible) UNI/BI UNI Pace, UNI/BI Sense	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	942	Vista DDD	DDDC	CPI 942	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100 (DOO)	85 (DOO)	D		
	950	Vigor DDD	DDDC	CPI 950	3.2 mm LP UNI/BI	3.2 mm LP UNI/BI	#2	PR	PR	100 (DOO)	90/85	A		
	955	Vigor DDD	DDDC	CPI 955	5/6 mm UNI	5/6 mm UNI	#2	PR	PR	100 (DOO)	90/85	A		



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	970	Pulsar DDD(Aa)	DDDC	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S		
	972	Pulsar DDD(Aa)	DDDC	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S		
	976	Meridian DDD	DDDC	CPI 001	VS-1B UNI/BI (IS-1 Compatible)	VS-1B UNI/BI (IS-1 Compatible)	#2	PR	PR	100	85	S		

Guidant Corp.

CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage CRT devices	1241	Contak TR	DDDR	GDT 201	3.2 mm LP UNI/BI IS-1 Comp., Programmable	None	3.2 mm LP UNI/BI IS-1 Comp., Programmable	LV-1 UNI/EXTBI	#2	PR	PR	100	85	Single step drop in mag rate	5.1
	H120	CONTAK RENEWAL TR	DDDR	GDT 204	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/EXTBI	#2	PR	PR	100	85	Single step drop in mag rate	6.1
	H125	CONTAK RENEWAL TR	DDDR	GDT 204	IS-1 UNI/BI	None	IS-1 UNI/BI	LV-1 UNI/EXTBI	#2	PR	PR	100	85	Single step drop in mag rate	6.1
	H140	CONTAK RENEWAL TR2	DDDR	GDT 204	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/EXTBI	#2	PR	PR	100	85	Single step drop in mag rate	6.1
	H145	CONTAK RENEWAL TR2	DDDR	GDT 204	IS-1 UNI/BI	None	IS-1 UNI/BI	LV-1 UNI/EXTBI	#2	PR	PR	100	85	Single step drop in mag rate	6.1



ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1740	Ventak Mini	VVEV	CPI 1740	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1741	Ventak Mini+	VVEV	CPI 1741	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1742	Ventak Mini HC	VVEV	CPI 1742	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1743	Ventak Mini+ HC	VVEV	CPI 1743	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1745	Ventak Mini	VVEV	CPI 1745	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1746	Ventak Mini+	VVEV	CPI 1746	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1748	Ventak Mini HE	VVEV	CPI 1748	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1749	Ventak Mini HE	VVEV	CPI 1749	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1752	Ventak Mini II	VVEV	CPI 1752	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI

Guidant Corp.

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1753	Ventak Mini II+	VVEV	CPI 1753	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1762	Ventak Mini II	VVEV	CPI 1762	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1763	Ventak Mini II+	VVEV	CPI 1763	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1772	Ventak Mini III	VVEV	CPI101	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1773	Ventak Mini III+	VVEV	CPI101	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1774	Ventak VR	VVEV	CPI105	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1775	Ventak VR	VVEV	CPI105	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1776	Ventak Mini III+	VVEV	CPI101	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1782	Ventak Mini III	VVEV	CPI101	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1783	Ventak Mini III+	VVEV	CPI101	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1786	Ventak Mini III+	VVEV	CPI101	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1788	Ventak Mini III+ HE	VVEV	CPI101	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1789	Ventak Mini III+ HE	VVEV	CPI101	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1790	Ventak Mini IV	VVEV	CPI106	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1792	Ventak Mini IV	VVEV	CPI106	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1793	Ventak Mini IV+	VVEV	CPI106	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1796	Ventak Mini IV+	VVEV	CPI106	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1810	Ventak AV	VVED	CPI 1810	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI

Guidant Corp.

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1815	Ventak AV	VVED	CPI 1815	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1820	Ventak AV II	VVED	CPI 1820	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1821	Ventak AV II DR	VVED	CPI 1821	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1825	Ventak AV II	VVED	CPI 1825	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1826	Ventak AV II DR	VVED	CPI 1826	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1831	Ventak AV III DR	VVED	CPI103	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1836	Ventak AV III DR	VVED	CPI103	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI
	1850	Ventak Prizm VR	VVEV	GDT 104	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1851	Ventak Prizm DR	VVED	GDT 104	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1852	Ventak Prizm VR HE	VVEV	GDT 104	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1853	Ventak Prizm DR HE	VVED	GDT 104	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1855	Ventak Prizm VR	VVEV	GDT 104	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1856	Ventak Prizm DR	VVED	GDT 104	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1857	Ventak Prizm VR HE	VVEV	GDT 104	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1858	Ventak Prizm DR HE	VVED	GDT 104	IS-1 BI	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI
	1860	Ventak Prizm 2 VR	VVEV	GDT 104	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 17.5 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI
	1861	Ventak Prizm 2 DR	VVED	GDT 104	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 17.5 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI
	1870	Vitality VR	VVEV	GDT 109	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI

Guidant Corp.

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	1871	Vitality DR	VVED	GDT 109	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	1872	Vitality DR+	VVED	GDT 109	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	A135	Vitality AVT	DDED	GDT 114	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	A155	Vitality AVT	DDED	GDT 114	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI
	T125	Vitality DS DR	VVED	GDT 104	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13.1 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	T127	Vitality EL DR	VVED	GDT 104	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13.1 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	T135	Vitality DS VR	VVEV	GDT 104	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13.1 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	T165	Vitality 2	VVED	GDT 109	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	
	T167	Vitality 2 EL	VVED	GDT 109	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	
	T175	Vitality 2	VVEV	GDT 109	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	
	T177	Vitality 2 EL	VVEV	GDT 109	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	
	T180	Vitality DR He	VVED	GDT 117	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	



CRT-D	Model		NBD Code	X-ray ID	Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator	
	Number	Name			RA	RV	LV	HV				
high-voltage CRT devices	1823	CONTAK CD	VVED	GDT 200	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 4.90 V Programmer Indicates ERI	
	H115	Contak CD 2	VVED	GDT 104	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI	
	H119	Contak CD 2 HE	VVED	GDT 104	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI	
	H135	Contak Renewal	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI	
	H155	Contak Renewal 2	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 18 sec. Or Battery Voltage ≤ 2.45 V Programmer Indicates ERI	
	H170	Contak Renewal 3	VVED	GDT 202	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 12 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI	
	H175	Contak Renewal 3	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 12 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI	
	H177	Contak Renewal 3 HE	VVED	GDT 202	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI	
	H179	Contak Renewal 3 HE	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI	

Guidant Corp.

CRT-D	Model		NBD Code	X-ray ID	Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	LV	HV			
high-voltage CRT devices	H190	Contak Renewal 4	VVED	GDT 202	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 12 sec. Or Battery Voltage ≤ 2.48 V Programmer Indicates ERI
	H195	Contak Renewal 4	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 12 sec. Or Battery Voltage ≤ 2.48V Programmer Indicates ERI
	H197	Contak Renewal 4 HE	VVED	GDT 202	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI
	H199	Contak Renewal 4 HE	VVED	GDT 202	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 13 sec. Or Battery Voltage ≤ 2.50 V Programmer Indicates ERI
	H210	Renewal 3 RF	VVED	GDT 203	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 15 sec. Or Battery Voltage ≤ 2.50V Programmer Indicates ERI
	H215	Renewal 3 RF	VVED	GDT 203	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 15 sec. Or Battery Voltage ≤ 2.50V Programmer Indicates ERI
	H217	Renewal 3 HE RF	VVED	GDT 203	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.50V Programmer Indicates ERI
	H219	Renewal 3 HE RF	VVED	GDT 203	IS-1 BI	IS-1 BI	LV-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	2nd Charge Time ≥ 20 sec. Or Battery Voltage ≤ 2.50V Programmer Indicates ERI

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	0010			5 mm Bif	BI	Passive	ENDO	SIL	RV
	0011			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	0012			5 mm Bif	BI	Passive	ENDO	SIL	RV
	0013			IS-1	BI	Passive	ENDO	SIL	RV
	0014	SWEET TIP		5 mm Bif	BI	Screw	ENDO	SIL	RA/RV
	0015	SWEET TIP		IS-1	BI	Screw	ENDO	SIL	RA/RV
	0030			5 mm	UNI	Screw	EPI	SIL	RV
	0056			5 mm Bif	BI	Screw	ENDO	SIL	RA/RV
	4000			5/6 mm	TRI	Passive	ENDO	SIL	RV
	4001			5/6 mm	TRI	Passive	ENDO	SIL	RV
	4002			5/6 mm	TRI	Passive	ENDO	SIL	RV
	4010			5 mm	UNI	Passive	ENDO	SIL	RV
	4011			5 mm	UNI	Passive	ENDO	SIL	RA
	4012	SWEET TIP		5 mm	UNI	Screw	ENDO	SIL	RA/RV
	4015	FLEXION		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4016	FLEXION		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4017	FLEXION		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4018	FLEXION		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4019			IS-1	UNI	Passive	ENDO	SIL	RV
	4021			IS-1	UNI	Passive	ENDO	SIL	RV
	4022			IS-1	BI	J+Tines	ENDO	POLY	RA
	4023			IS-1	UNI	J+Tines	ENDO	POLY	RA
	4024			IS-1	BI	J+Tines	ENDO	POLY	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4025			IS-1	UNI	J+Tines	ENDO	POLY	RA
	4026			IS-1	BI	Passive	ENDO	POLY	RV
	4027			IS-1	UNI	Passive	ENDO	POLY	RV
	4028			IS-1	BI	Passive	ENDO	POLY	RV
	4029			IS-1	UNI	Passive	ENDO	POLY	RV
	4030	SELUTE PICOTIP		IS-1	UNI	Passive	ENDO	SIL	RV
	4031	SELUTE PICOTIP		IS-1	UNI	Passive	ENDO	SIL	RV
	4032	SELUTE PICOTIP		IS-1	UNI	Passive	ENDO	SIL	RV
	4033	SELUTE PICOTIP		IS-1	BI	Passive	ENDO	SIL	RV
	4034	SELUTE PICOTIP		IS-1	BI	Passive	ENDO	SIL	RV
	4035	SELUTE PICOTIP		IS-1	BI	Passive	ENDO	SIL	RV
	4036			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	4037			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	4038			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	4039			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	4042			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	4043	SELUTE PICOTIP AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4044	SELUTE PICOTIP AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4045			IS-1	UNI	Screw	EPI	SIL	RV
	4046			IS-1	BI	Screw	EPI	SIL	RV
	4047			IS-1	BI	Screw	EPI	SIL	RV
	4050	SWEET PICOTIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4051	SWEET PICOTIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4052	SWEET PICOTIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	4053	SWEET PICOTIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4054	SWEET PICOTIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4055	SWEET PICOTIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4056			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	4057			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	4058			IS-1	UNI	Screw	EPI	SIL	RV
	4063	SELUTE PICOTIP AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4064	SELUTE PICOTIP AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4080	FLEXTEND		IS-1	BI	Ext/Ret	ENDO	SIL	RA/RV
	4081	FLEXTEND		IS-1	BI	Ext/Ret	ENDO	SIL	RA/RV
	4082	FLEXTEND		IS-1	BI	Ext/Ret	ENDO	SIL	RA/RV
	4086	FLEXTEND		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4087	FLEXTEND		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4088	FLEXTEND		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4109			6 mm	UNI	Passive	ENDO	SIL	RV
	4110			6 mm	UNI	Passive	ENDO	SIL	RV
	4111			6 mm	UNI	Passive	ENDO	SIL	RV
	4112			6 mm	UNI	Passive	ENDO	SIL	RV
	4113			6 mm	UNI	Passive	ENDO	SIL	RV
	4114			6 mm	UNI	Passive	ENDO	SIL	RV
	4115			6 mm	UNI	Passive	ENDO	SIL	RV
	4116			6 mm	UNI	Passive	ENDO	SIL	RV
107	4117			6 mm	UNI	Passive	ENDO	SIL	RV

Guidant Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4118			6 mm	UNI	Passive	ENDO	SIL	RV
	4129			6 mm	UNI	Passive	ENDO	SIL	RV
	4130			6 mm	UNI	Passive	ENDO	SIL	RV
	4131			6 mm	UNI	Passive	ENDO	SIL	RV
	4133			6 mm	UNI	Passive	ENDO	SIL	RV
	4143	SWEET TIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4144	SWEET TIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4145	SWEET TIP Rx		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4150			6 mm	UNI	Passive	ENDO	SIL	RV
	4154			3.2 mm LP	UNI	Passive	ENDO	SIL	RV
	4156			6 mm	UNI	Passive	ENDO	SIL	RA
	4157			6 mm	UNI	Passive	ENDO	SIL	RA
	4160			3.2 mm LP	UNI	Passive	ENDO	SIL	RV
	4161			IS-1	UNI	Passive	ENDO	SIL	RV
	4162	DEXATIP		IS-1	UNI	Passive	ENDO	SIL	RV
	4165	SWEET TIP		6 mm	UNI	Screw	ENDO	SIL	RA/RV
	4166	SENTRA		3.2 mm LP	UNI	Screw	ENDO	SIL	RA/RV
	4168	SWEET TIP		3.2 mm LP	UNI	Screw	ENDO	SIL	RA/RV
	4169	SWEET TIP		IS-1	UNI	Screw	ENDO	SIL	RA/RV
	4170	SENTRA		3.2 mm LP	UNI	Passive	ENDO	SIL	RA
	4171			IS-1	UNI	J+Tines	ENDO	SIL	RA
108	4180	IONYX		IS-1	UNI	Passive	ENDO	SIL	RV
	4185	SELUTE		IS-1	UNI	Passive	ENDO	SIL	RV
	4190	IONYX		IS-1	UNI	J+Tines	ENDO	SIL	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4193	SELUTE AJ		IS-1	UNI	J+Tines	ENDO	SIL	RA
	4194	SELUTE AJ		IS-1	UNI	J+Tines	ENDO	SIL	RA
	4209			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4210			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4211			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4218			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4225			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4226			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4227			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4229			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4230			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4231			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4243	SWEET TIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4244	SWEET TIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4245	SWEET TIP Rx		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4250			5 mm Bif	BI	Passive	ENDO	SIL	RV
	4254			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	4256			5 mm Bif	BI	Passive	ENDO	SIL	RA
	4257			5 mm Bif	BI	Passive	ENDO	SIL	RA
	4260			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	4261			IS-1	BI	Passive	ENDO	SIL	RV
109	4262	DEXATIP		IS-1	BI	Passive	ENDO	SIL	RV
	4266	SENTRA		3.2 mm LP	BI	Screw	ENDO	SIL	RA/RV

Guidant Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4268	SWEET TIP		3.2 mm LP	BI	Screw	ENDO	SIL	RA/RV
	4269	SWEET TIP		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4270	SENTRA		3.2 mm LP	BI	Passive	ENDO	SIL	RA
	4271			IS-1	BI	J+Tines	ENDO	SIL	RA
	4280	IONYX		IS-1	BI	Passive	ENDO	SIL	RV
	4285	SELUTE		IS-1	BI	Passive	ENDO	SIL	RV
	4290	IONYX		IS-1	BI	J+Tines	ENDO	SIL	RA
	4293	SELUTE AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4294	SELUTE AJ		IS-1	BI	J+Tines	ENDO	SIL	RA
	4310			5 mm	UNI	Screw	EPI	SIL	RV
	4311			5 mm	UNI	Screw	EPI	SIL	RV
	4312			5 mm	UNI	Screw	EPI	SIL	RV
	4313			5 mm	UNI	Screw	EPI	SIL	RV
	4314			UNK	UNI	Screw	EPI	SIL	RV
	4315			3.2 mm LP	UNI	Screw	EPI	SIL	RV
	4316			IS-1	UNI	Screw	EPI	SIL	RV
	4320			5 mm	UNI	Screw	EPI	SIL	RV
	4321			IS-1	UNI	Screw	EPI	SIL	RV
	4322			IS-1	UNI	Screw	EPI	SIL	RV
	4340	SELUTE PICOTIP VDD		IS-1	A:Bi V:Bi	Passive	ENDO	SIL	VDD
	4341	SELUTE PICOTIP VDD		IS-1	A:Bi V:Bi	Passive	ENDO	SIL	VDD
	4342	SELUTE PICOTIP VDD		IS-1	A:Bi V:Bi	Passive	ENDO	SIL	VDD
	4343	SELUTE PICOTIP VDD		IS-1	A:Bi V:Bi	Passive	ENDO	SIL	VDD
110	4400	PRECEPT		3.2 mm LP	TRI	Passive	ENDO	SIL	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4439			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA
	4440			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4441			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4444			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	4450	FINELINE I		IS-1	BI	Passive	ENDO	POLY	RV
	4451	FINELINE I		IS-1	BI	Passive	ENDO	POLY	RV
	4452	FINELINE II		IS-1	BI	Passive	ENDO	POLY	RV
	4453	FINELINE II		IS-1	BI	Passive	ENDO	POLY	RV
	4454	FINELINE II		IS-1	BI	Passive	ENDO	SIL	RV
	4455	FINELINE II		IS-1	BI	Passive	ENDO	SIL	RV
	4456	FINELINE II Sterox		IS-1	BI	Passive	ENDO	POLY	RV
	4457	FINELINE II Sterox		IS-1	BI	Passive	ENDO	POLY	RV
	4458	FINELINE II Sterox		IS-1	BI	Passive	ENDO	SIL	RV
	4459	FINELINE II Sterox		IS-1	BI	Passive	ENDO	SIL	RV
	4460	FINELINE I EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4461	FINELINE I EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4462	FINELINE I EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4463	FINELINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4464	FINELINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4465	FINELINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4466	FINELINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4467	FINELINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
111	4468	FINELINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV

Guidant Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4469	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4470	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4471	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4472	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4473	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4474	FINELINE II EZ Sterox		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4475	FINELINE I		IS-1	BI	J+Tines	ENDO	POLY	RA
	4476	FINELINE I		IS-1	BI	J+Tines	ENDO	POLY	RA
	4477	FINELINE II		IS-1	BI	J+Tines	ENDO	POLY	RA
	4478	FINELINE II		IS-1	BI	J+Tines	ENDO	POLY	RA
	4479	FINELINE II Sterox AJ		IS-1	BI	Passive	ENDO	POLY	RA
	4480	FINELINE II Sterox AJ		IS-1	BI	Passive	ENDO	POLY	RA
	4510			LV-1	UNI	Passive	ENDO	UNK	CS
	4511			LV-1	UNI	Passive	ENDO	UNK	CS
	4512			LV-1	UNI	Passive	ENDO	UNK	CS
	4513			LV-1	UNI	Passive	ENDO	UNK	CS
	4515	EASYTRACK 2		LV-1	BI	Tines	ENDO	SIL	CS
	4517	EASYTRACK 2		LV-1	BI	Tines	ENDO	SIL	CS
	4518	EASYTRACK 2		LV-1	BI	Tines	ENDO	SIL	CS
	4520	EASYTRACK 2		LV-1	BI	Tines	ENDO	SIL	CS
	4522	EASYTRACK 3		LV-1	BI	Spiral	ENDO	SIL	CS
	4524	EASYTRACK 3		LV-1	BI	Spiral	ENDO	SIL	CS
	4525	EASYTRACK 3		LV-1	BI	Spiral	ENDO	SIL	CS
	4527	EASYTRACK 3		LV-1	BI	Spiral	ENDO	SIL	CS





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	4535	EASYTRACK		IS-1	UNI	Tines	ENDO	SIL	CS
	4536	EASYTRACK		IS-1	UNI	Tines	ENDO	SIL	CS
	4537	EASYTRACK		IS-1	UNI	Tines	ENDO	SIL	CS
	4538	EASYTRACK		IS-1	UNI	Tines	ENDO	SIL	CS
	4542	EASYTRACK 2		IS-1	BI	Tines	ENDO	SIL	CS
	4543	EASYTRACK 2		IS-1	BI	Tines	ENDO	SIL	CS
	4544	EASYTRACK 2		IS-1	BI	Tines	ENDO	SIL	CS
	4548	EASYTRACK 3		IS-1	BI	Spiral	ENDO	SIL	CS
	4549	EASYTRACK 3		IS-1	BI	Spiral	ENDO	SIL	CS
	4550	EASYTRACK 3		IS-1	BI	Spiral	ENDO	SIL	CS

Guidant Corp.

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	0020	C10		N/A	6.1 mm (1 pin)	N/A	Unipolar	Endo SVC	Passive	Silicone	
	0040	A67		N/A	6.1 mm (1 pin)	N/A	Unipolar	Epi. Patch(Sm.)	Suture	Silicone	
	0041	L67		N/A	6.1 mm (1 pin)	N/A	Unipolar	Epi. Patch(Lg.)	Suture	Silicone	
	0047	Endotak SQ		N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	
	0048	Endotak SQ Array		N/A	6.1 mm (1 pin)	N/A	Unipolar	SubQ Coils	Suture	Silicone	
	0049	Endotak SQ Array		N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Coils	Suture	Silicone	
	0060	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0062	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0063	Endotak SQ		N/A	6.1 mm (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	
	0064	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0067			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch(Sm.)	Suture	Silicone	
	0068			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch(Lg.)	Suture	Silicone	
	0070	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0072	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0073	Endotak C		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0074	Endotak C		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0075	Endotak C		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0085	Endotak SQ Array XP		N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Array	Suture	Silicone	
	0092	Endotak DSP		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0093	Endotak DSP		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0094	Endotak DSP		4.75 mm Bif BI	6.1 mm (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0095	Endotak DSP		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
	0097	Endotak DSP		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	
114	0113	Endotak C		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone	



HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	0115	Endotak C		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0123	Endotak DSP		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0125	Endotak DSP		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0127	Endotak Reliance S		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0128	Endotak Reliance S		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0134	Endotak Endurance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0135	Endotak Endurance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0136	Endotak Endurance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0137	Endotak Reliance S		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0138	Endotak Reliance S		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0139	Endotak Reliance S		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0144	Endotak Endurance Rx		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0145	Endotak Endurance Rx		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0146	Endotak Endurance Rx		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0147	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0148	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0149	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0154	Endotak Endurance EZ		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0155	Endotak Endurance EZ		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0156	Endotak Endurance EZ		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0157	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0158	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
115	0159	Endotak Reliance		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone

Guidant Corp.

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	0170	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0171	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0172	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0173	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	0174	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0175	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0176	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0177	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	0180	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0181	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0182	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0183	Endotak Reliance SG		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	0184	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0185	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0186	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0187	Endotak Reliance G		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	0202	Perimeter CS		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	UNK
	0203	Perimeter CS		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	UNK
	0204	Perimeter CS		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	UNK



Notes

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	511111	Myopore		IS-1	UNI	Screw-In	EPI	SIL	RA/RV
	511112	Myopore		IS-1	UNI	Screw-In	EPI	SIL	RA/RV
	511210	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV
	511211	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV
	511212	Myopore		IS-1	BI	Screw-In	EPI	SIL	RA/RV



Notes

Intermedics, Inc. [Guidant Corp.]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	201	Mercury Zinc	VVI	None	None	6 mm UNI	#6	70	67	70	67	C, 3 ppm		
	211-01	CMOS	VVI	None	None	6 mm UNI	#6	70	67	70	67	C, 3 ppm		
	221-02	CMOS	VVI	None	None	6 mm UNI	#6	70	67	70	67	C, 3 ppm		
	222-01	CMOS	VVI	None	None	5 mm Bif BI	#6	70	67	70	67	C, 3 ppm		
	223-01	Interlith	VVI	None	None	6 mm UNI	#6	71	66	71	66	C, 5 ppm		
	223-02	Interlith	VVI	None	None	6 mm UNI	#6	71	66	71	66	C, 5 ppm		
	223-04	Interlith TL	VVI	None	None	6 mm UNI	#6	71	66	71	66	C, 5 ppm		
	224-01	Interlith	VVI	None	None	5 mm Bif BI	#6(Mb)	71	66	71	66	C, 5 ppm		
	224-02	Interlith	VVI	None	None	5 mm Bif BI	SD	71	66	71	66	C, 5 ppm		
	225-01	Thinlith I	VVI	None	None	6 mm UNI	#6	71	68	71	68	C, 3 ppm		
	227-01	Thinlith II	VVI	None	None	6 mm UNI	#6	71	65	71	65	C, 6 ppm		
	227-05	Thinlith II	VVI	227-05	None	6 mm UNI	#6	72	72	90	83	D, 7±3 ppm		
	228-01	Thinlith	VVI	None	None	6 mm In-line BI	#6	70	66	70	66	C, 4 ppm		
	229-01	Thinlith III	VVI	None	None	6 mm UNI	#6	71	65	71	65	C, 6 ppm		
	229-05	Thinlith III	VVI	229-05	None	6 mm UNI	#6	72	72	90	83	D, 7±3 ppm		
	230-05	Thinlith III	VVI	230-05	None	5 mm Bif BI	#6	72	72	90	83	D, 7±3 ppm		
	231-01	Unilith	VVI	None	None	6 mm UNI	#6	71	66	71	66	C, 5 ppm		
	233-01	Thinlith IV	VVI	None	None	6 mm UNI	#6	71	68	71	68	C, 3 ppm		
	233-02	Thinlith IV	VVI	None	None	6 mm UNI	#6	71	65	71	65	C, 6 ppm		
	233-05	Thinlith IV	VVI	233-05	None	6 mm UNI	#6	72	72	90	83	D, 7±3 ppm		
	235-01	Prima	VVI	235-01	None	6 mm UNI	SD	72	67	72±2	67	C, 5 ppm		
	236-02	Prima	VVI	236-02	None	5 mm Bif BI	SD	72	67	72±2	67	C, 5 ppm		
120	251-01	Interlith RP	VVIP	None	None	6 mm UNI	#6	PR	PR-7%	PR	PR-7%	C, 7%		
	251-02	Interlith RP	VVIP	None	None	6 mm UNI	#6	PR	PR-7%	PR	PR-7%	C, 7%		



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	252-01	Interlith RP	VVIP	None	None	5 mm Bif BI	#6(Mb)	PR	PR-7%	PR	PR-7%	C, 7%		
	253-01	Cyberlith I	VVIM	None	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-02	Cyberlith I	VVIM	253-02	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-03	Cyberlith I	VVIM	None	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-04	Cyberlith I	VVIM	253-04	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-05	Cyberlith	VVIM	None	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-07	Cyberlith	VVIM	253-07	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-09	Quantum	VVIC	253-09	None	6 mm UNI	#6	PR	PR	86	80	D, 7%		
	253-11	Cyberlith I	VVIM	None	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-19	Quantum	VVIC	253-19	None	6 mm UNI	SD	PR	PR	87±3	80±2	D, 5 ppm		
	253-21	SuPrima	VVIM	253-21	None	6 mm UNI	#6	PR	PR	90	83	D, 7±3 ppm		
	253-23	SuPrima II	VVIM	253-23	None	6 mm UNI	SD	PR	PR	87±3	80	D		
	253-25	Quantum II	SSIC	ICP	None	VS-1 UNI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
	254-02	Cyberlith	VVIM	None	None	5 mm Bif BI	SD	PR	PR-6 ppm	90	84	D, 6 ppm		
	254-06	Cyberlith	VVIM	None	None	6 mm In-line BI	#6	PR	PR	90	83	D, 7±3 ppm		
	254-07	Cyberlith	VVIM	254-07	None	5 mm Bif BI	#2	PR	PR	90	83	D, 7±3 ppm		
	254-09	Quantum	VVIC	254-09	None	5 mm Bif BI	#2	PR	PR	86±3	80±3	D, 6 ppm		
	254-10	Quantum	VVIC	254-10	None	6 mm In-line BI	#6	PR	PR	86±3	80±3	D, 6 ppm		
	254-18	Quantum	VVIC	254-18	None	5 mm Bif BI	SD	PR	PR	87±3	80±2	D, 5 ppm		
	254-20	Quantum	VVIC	254-20	None	6 mm In-line BI	SD	PR	PR	87±3	80±2	D, 5 ppm		
	254-20V	Quantum	VVIC	ICG	None	VS-1 BI	SLC	PR	PR	87±3	80±2	D, 5 ppm		
	254-22	SuPrima	VVIM	254-22	None	5 mm Bif BI	#6	PR	PR	90	83	D		
121	254-24	SuPrima	VVIM	254-24	None	6 mm In-line BI	#6	PR	PR	90	83	D		

Intermedics, Inc. [Guidant Corp.]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	254-25	Quantum II	SSIC	ICX	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	254-26	SuPrima II	VVIM	254-26	None	5 mm Bif BI	SD	PR	PR	87±3	80±2	D	
	254-27	Quantum III	SSIC	ICX	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	254-28	SuPrima II	VVIM	254-28	None	6 mm In-line BI	SD	PR	PR	87±3	80±2	D	
	254-30	Quantum II	SSIC	ICU	None	VS-1 BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	254-31	SuPrima III	VVIM	IET	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	259-01	Cyberlith IV	DVIM	None	5 mm UNI	5 mm UNI	SD	PR	PR	90	83(Fa)	D, 7±3 ppm	
	262-01	CyberTach 60	AAIMP	None	5 mm Bif BI	None	SD	PR	PR	PR	PR-4.5 ppm	D, 4.5 ppm	
	262-12	Intertach (Aa)	AAICP	262-12	6 mm In-line BI	None	SD	PR	PR(Ea)	PR(Ba)	90	Ba, 60-90	
	262-14	Intertach	VVICP	262-14	None	6 mm In-line BI	SD	PR	PR(Ea)	PR	90	Ba, 60-90	
	262-16	Intertach II	AAICP	IEG	VS-1 BI	VS-1 BI	SLC	PR	PR(Ea)	PR(Ba)	90/80	A, 90-80	
	262-16R	Intertach II	AAICP	IES	6 mm/VS-1 BI	None	#2	PR	PR(Ea)	PR(Ba)	90/80	A, 90-80	
	262-18	Intertach II(Aa)	VVICP	IEH	None	VS-1 BI	SLC	PR	PR(Ea)	PR	90/80	A, 90-80	
	263-01	Avius	DVIM	263-01	5 mm UNI	5 mm UNI	#2	PR	PR	90	83	D, 7 ppm	
	271-03	Galaxy	DDDC	271-03	5 mm UNI	5 mm UNI	#2	PR	PR(VVI)	PR	90/80 (VOO)	A, 90-80	
	281-01	Nova	SSIC	281-01	None	6 mm UNI	SD	PR	PR	PR(Ca)	65 (VOO)	B, 65 ppm	
	281-03	Nova II	SSIC	ICC	None	VS-1 UNI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	281-05	Nova II	SSIC	ICK	None	VS-1 UNI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	281-05S	Nova II	SSIC	ICZ	None	6 mm UNI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	281-07	Nova III	SSIC	IFJ	None	6 mm UNI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	282-02	Nova	SSIC	282-02	None	6 mm In-line BI	SD	PR	65	PR(Ca)	65 (VOO)	B, 65 ppm	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior		Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	282-04	Nova II	SSIC	ICE	None	VS-1 BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
	282-04R	Nova II	SSIC	ICL	None	6 mm/VS-1 BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	282-04Y	Nova II	SSIC	IEL	None	5 mm Bif BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	282-07	Nova III	SSIC	IFN	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
	282-09	Nova III	SSIC	IEN	None	5 mm Bif UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	282-09R	Nova III	SSIC	IEX	None	6 mm/VS-1 UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	283-01	Cosmos	DDDC	283-01	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	PR(Ca)	65 (VOO)	B, 65 ppm		
	283-01V	Cosmos	DDDC	283-01V	VS-1 UNI	VS-1 UNI	SLC	PR	65 (VVI)	PR(Ca)	65 (VOO)	B, 65 ppm		
	283-03	Cosmos II	DDDC	IEF	5 mm UNI	5 mm UNI	#2	PR	PR (VVI)	PR(Ca)	90/80 (VOO)	A, 90-80		
	283-09	Cosmos III	DDDC	IGZ	5 mm UNI	5 mm UNI	#2	PR	PR (VVI)	PR(Ca)	90/80 (VOO)	A, 90-80		
low-voltage devices	284-02	Cosmos	DDDC	284-02	6 mm In-line BI Sense, UNI Pace	6 mm In-line BI Sense, UNI Pace	#2	PR	65 (VVI)	PR(Ca)	65 (VOO)	B, 65 ppm		
	284-02S	Cosmos	DDDC	284-02	6 mm In-line BI Sense, UNI Pace	6 mm In-line BI Sense, UNI Pace	#2	PR	65 (VVI)	PR(Ca)	65 (VOO)	B, 65 ppm		
	284-02V	Cosmos	DDDC	284-02V	VS-1 BI Sense, UNI Pace	VS-1 BI Sense, UNI Pace	SLC	PR	65 (VVI)	PR(Ca)	65 (VOO)	B, 65 ppm		
	284-05	Cosmos II	DDDC	ICN	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR (VVI)	PR(Ca)	90/80 (VOO)	A, 90-80		
	284-09	Cosmos III	DDDC	IGU	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR (VVI)	PR(Ca)	90/80 (VOO)	A, 90-80		
	291-01	Nova MR	SSIR	ICI	None	VS-1 UNI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
	291-03	Dash	SSIR	IFE	None	6 mm UNI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	291-09	Marathon SR	SSIR	IGC	None	6 mm UNI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		
	292-02	Nova MR	SSIR	ICI	None	VS-1 BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
	292-03	Dash	SSIR	IEK	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		
low-voltage devices	292-03R	Dash	SSIR	IFF	None	6 mm/VS-1 UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80		

Intermedics, Inc. [Guidant Corp.]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	292-05	Dart	SSIR	IFJ	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	292-06	Unity C	VDD	IFT	VS-1 BI (Sense)	VS-1 UNI (P/S)	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	292-07	Unity	VDDR	IFL	VS-1 BI (Sense)	VS-1 UNI (P/S)	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	292-09R	Marathon SR	SSIR	IGF	None	6 mm/VS-1 UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	292-09X	Marathon SR	SSIR	IGK	None	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	293-01	Circadia	DDDR	ICJ	VS-1 UNI	VS-1 UNI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	293-03	Relay	DDDR	IFG	5 mm UNI	5 mm UNI	#2	PR	PR(SSI)	PR(Ca)	90/80 (SOO)	A, 90-80	
	293-09	Marathon DR	DDDR	IGH	5 mm UNI	5 mm UNI	#2	PR	PR(SSI)	PR(Ca)	90/80 (SOO)	A, 90-80	
	293-23	Momentum DR	DDDR	IHH	5 mm UNI	5 mm UNI	#2	PR	PR(SSI)	PR(Ca)	90/80 (SOO)	A, 90-80	
	294-03	Relay	DDDR	IEJ	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-03R	Relay	DDDR	IFH	6 mm/VS-1 UNI/BI	6 mm/VS-1 UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-05	Stride	DDDR	IFK	VS-1B UNI/BI	VS-1B UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-09	Marathon DR	DDDR	IFZ	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-09R	Marathon DR	DDDR	IGG	6 mm/VS-1 UNI/BI	6 mm/VS-1 UNI/BI	#2	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-10	Marathon DR	DDDR	IGJ	VS-1 BI	VS-1 BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
	294-23	Momentum DR	DDDR	IHG	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80	
294-23Z	Momentum DR	DDDR	IHL	VS-1 UNI/BI	VS-1 UNI/BI	SLC	PR	PR	PR(Ca)	90/80	A, 90-80		

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	401-02			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	404-01			VS-1	BI	Retractable Helix	ENDO	SIL	RA/RV
	404-02			VS-1	BI	Retractable Helix	ENDO	UNK	RA/RV
	404-04			VS-1	BI	Retractable Helix	ENDO	SIL	RV
	405-01			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	405-03			VS-1	UNI	Retractable Helix	ENDO	POLY	RA/RV
	405-04			VS-1	UNI	Retractable Helix	ENDO	SIL	RV
	406-04			VS-1	BI	J+Retract. Helix	ENDO	SIL	RA
	407-04			VS-1	UNI	J+Retract. Helix	ENDO	SIL	RA
	420-01			VS-1, BI for Temp	BI	Dynamic Stabilizer	ENDO	POLY	RV
	420-02			VS-1, BI for Temp	BI	Screw-In	ENDO	POLY	RV
	420-03			VS-1, BI for Temp	UNI	Tines	ENDO	POLY	RV
	420-04			IS-1	BI (P/S), BI for Temp	Passive	ENDO	POLY	RV
	420-05			IS-1	BI (P/S), BI for Temp	Passive	ENDO	POLY	RV
	420-06			IS-1	BI (P/S), BI for Temp	Passive	ENDO	POLY	RA/RV
	420-07			IS-1	BI (P/S), BI for Temp	Screw	ENDO	POLY	RA/RV
	420-12			IS-1	BI (P/S), BI for Temp	Passive	ENDO	POLY	RV
	420-14			IS-1	BI (P/S), BI for Temp	Passive	ENDO	POLY	RV
	421-01			VS-1, BI for Temp	UNI	Dynamic Stabilizer	ENDO	POLY	RV
	421-02			VS-1, BI for Temp	UNI	Helix	EPI	POLY	RA/RV
	421-03			VS-1, BI for Temp	UNI	Tines	ENDO	POLY	RV
	421-05			VS-1, BI for Temp	UNI	Tines	ENDO	POLY	RV
125	421-07			VS-1, BI for Temp	UNI	Screw-In	ENDO	POLY	RV

Intermedics, Inc. [Guidant Corp.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	425-02			Atr. VS-1, Vent. VS-1	TRI	Tines	ENDO	POLY	VDD
	425-04			Atr. VS-1, Vent. VS-1	TRI	Tines	ENDO	POLY	VDD
	425-06			Atr. VS-1, Vent. VS-1	TRI	Tines	ENDO	POLY	VDD
	425-11	Unipass VDD		IS-1	A:BI(S) V:UNI(P/S)	Passive	ENDO	SIL	VDD
	425-13	Unipass VDD		IS-1	A:BI(S) V:UNI(P/S)	Passive	ENDO	SIL	VDD
	425-31	Unipass VDD		IS-1	A:BI(S) V:UNI(P/S)	Passive	ENDO	SIL	VDD
	425-33	Unipass VDD		IS-1	A:BI(S) V:UNI(P/S)	Passive	ENDO	SIL	VDD
	425-36	Unipass VDD		IS-1	A:BI(S) V:UNI(P/S)	Passive	ENDO	SIL	VDD
	426-31	Unipass VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	426-33	Unipass VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	426-36	Unipass VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	430-01			VS-1	BI	Talon Fixation	ENDO	POLY	RV
	430-02			VS-1	BI	Tines	ENDO	POLY	RV
	430-05			VS-1	BI	Talon Fixation	ENDO	POLY	RV
	430-07			VS-1	BI	Tines	ENDO	POLY	RV
	430-10			VS-1	BI	Tines	ENDO	POLY	RV
	430-25			IS-1	BI	Passive	ENDO	SIL	RV
	430-25S			IS-1	BI	Passive	ENDO	SIL	RV
	430-35			IS-1	BI	Passive	ENDO	POLY	RV
	430-35S			IS-1	BI	Passive	ENDO	POLY	RV
	431-02			VS-1	UNI	Talon	ENDO	POLY	RV
	431-04			VS-1	UNI	Tines	ENDO	POLY	RV
	431-06			VS-1	UNI	Talon Fixation	ENDO	POLY	RV
	431-07			VS-1	UNI	Tines	ENDO	POLY	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	432-01			VS-1	BI	J+Tines	ENDO	POLY	RA
	432-01T			VS-1	BI	J+Talon	ENDO	UNK	RA
	432-02			VS-1	BI	J+Tines	ENDO	POLY	RA
	432-03			VS-1	BI	J+Tines	ENDO	POLY	RA
	432-04			VS-1	BI	J+Tines	ENDO	POLY	RA
	432-35			IS-1	BI	J+Tines	ENDO	POLY	RA
	432-35S			IS-1	BI	J+Tines	ENDO	POLY	RA
	433-01			VS-1	UNI	J+Tines & D. S.	ENDO	UNK	RA
	433-01T			VS-1	UNI	J+Talon	ENDO	UNK	RA
	433-02			VS-1	UNI	J+Tines	ENDO	POLY	RA
	433-03			VS-1	UNI	J+Tines	ENDO	POLY	RA
	4344	Unipass II VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	4345	Unipass II VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	4346	Unipass II VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	4347	Unipass II VDD		IS-1	A:BI(S) V:BI(P/S)	Passive	ENDO	SIL	VDD
	4350	THINLINE		IS-1	BI	J+Tines	ENDO	POLY	RA
	435-02			VS-1	UNI	Fixed Screw	ENDO	POLY	RA/RV
	435-03			VS-1	UNI	Side Hook	ENDO	POLY	RV
	435-04			VS-1	UNI	Side Hook	ENDO	POLY	RA/RV
	435-05			VS-1	UNI	Fixed Screw	ENDO	POLY	RA/RV
	435-07			IS-1	UNI	Screw	ENDO	POLY	RA/RV
	435-08			VS-1	UNI	Screw-In	ENDO	SIL	RA/RV
127	4351	THINLINE		IS-1	BI	J+Tines	ENDO	POLY	RA

Intermedics, Inc. [Guidant Corp.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4352	THINLINE		IS-1	BI	Passive	ENDO	POLY	RV
	4353	THINLINE		IS-1	BI	Passive	ENDO	POLY	RV
	4354	THINLINE EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4355	THINLINE EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4356	THINLINE EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4357	THINLINE II AJ		IS-1	BI	J+Tines	ENDO	POLY	RA
	4358	THINLINE II AJ		IS-1	BI	J+Tines	ENDO	POLY	RA
	4359	THINLINE II		IS-1	BI	Passive	ENDO	POLY	RV
	4360	THINLINE II		IS-1	BI	Passive	ENDO	POLY	RV
	436-01			VS-1	BI	Talon	ENDO	SIL	RV
	436-02			VS-1	BI	Tines	ENDO	SIL	RV
	436-07			IS-1	BI	Passive	ENDO	SIL	RV
	4361	THINLINE II		IS-1	BI	Passive	ENDO	SIL	RV
	4362	THINLINE II		IS-1	BI	Passive	ENDO	SIL	RV
	4363	THINLINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4364	THINLINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4365	THINLINE II EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4366	THINLINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4367	THINLINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4368	THINLINE II EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4369	THINLINE II STEROX		IS-1	BI	Passive	ENDO	POLY	RA
	437-01			VS-1	UNI	Talon	ENDO	SIL	RV
	437-02			VS-1	UNI	Tines	ENDO	SIL	RV
	437-07			VS-1	UNI	Passive	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4371	THINLINE II STEROX		IS-1	BI	Passive	ENDO	POLY	RV
	4372	THINLINE II STEROX		IS-1	BI	Passive	ENDO	POLY	RA/RV
	4373	THINLINE II STEROX		IS-1	BI	Passive	ENDO	SIL	RV
	4374	THINLINE II STEROX		IS-1	BI	Passive	ENDO	SIL	RV
	4375	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4376	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4377	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	POLY	RA/RV
	4378	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4379	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	4380	THINLINE II STEROX EZ		IS-1	BI	Screw	ENDO	SIL	RA/RV
	438-01			VS-1	BI	Screw-In	ENDO	POLY	RA/RV
	438-02			VS-1	BI	Side Hook	ENDO	POLY	RV
	438-03			VS-1	BI	Side Hook	ENDO	POLY	RA/RV
	438-05			VS-1	BI	Screw-In	ENDO	POLY	RA/RV
	438-07			IS-1	BI	Screw	ENDO	POLY	RA/RV
	438-08			VS-1	BI	Screw-In	ENDO	UNK	RA/RV
	438-10			IS-1	BI	Screw	ENDO	POLY	RA/RV
	438-25			IS-1	BI	Screw	ENDO	SIL	RA/RV
	438-25S			IS-1	BI	Screw	ENDO	SIL	RA/RV
	438-35			IS-1	BI	Screw	ENDO	POLY	RA/RV
	438-35S			IS-1	BI	Screw	ENDO	POLY	RA/RV
129	439-02			VS-1	UNI	Screw	EPI	SIL	RV
	439-04			VS-1	UNI	Suture	EPI	POLY	RA/RV

Intermedics, Inc. [Guidant Corp.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	439-07			VS-1	UNI	Helix	EPI	SIL	RA/RV
	461-01			6 mm	UNI	Passive	ENDO	SIL	RV
	462			5 mm	UNI	Wedge	ENDO	UNK	UNK
	463			5 mm	UNI	Flange	ENDO	UNK	RV
	463-01			6 mm	UNI	Wedge	ENDO	SIL	RV
	463-02			6 mm	UNI	Wedge	ENDO	SIL	RV
	465			5 mm	UNI	Flange	ENDO	UNK	RV
	465-01			6 mm	UNI	Flange	ENDO	SIL	RV
	465-02			6 mm	UNI	Flange	ENDO	SIL	RV
	466			UNK	UNI	Flange	ENDO	UNK	RV
	466-01			5 mm Bif	BI	Flange	ENDO	SIL	RV
	467			UNK	UNI	Flange	ENDO	UNK	RV
	467-01			6 mm	UNI	Flange	ENDO	SIL	RV
	467-02			6 mm	UNI	Flange	ENDO	SIL	RV
	471-01			5 mm	UNI	Screw	EPI	SIL	RV
	471-02			5 mm	UNI	Screw	EPI	SIL	RV
	471-03			5 mm	UNI	Screw	EPI	SIL	RV
	471-04			5 mm	UNI	Screw	EPI	SIL	RV
	471-05			5 mm	UNI	Screw	EPI	UNK	RV
	471-06			5 mm	UNI	Screw	EPI	UNK	RV
	471-07			5/6 mm	UNI	Screw	EPI	SIL	RV
	471-09			5 mm	UNI	Screw	EPI	SIL	RV
	473-03			5/6 mm	UNI	Suture	EPI	POLY	RA
	475-01			5 mm	UNI	Tines	ENDO	UNK	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	476-01			5 mm Bif	BI	Tines	ENDO	SIL	RV
	476-02			5 mm Bif	BI		ENDO	UNK	RV
	476-03			5/6 mm Bif	BI	Tines	ENDO	POLY	RV
	476-04			5 mm Bif	BI	Tines	ENDO	SIL	RV
	476-06			5 mm Bif	BI	Dynamic Stabilizer	ENDO	SIL	RV
	476-07			5 mm Bif	BI	Dynamic Stabilizer	ENDO	POLY	RV
	477-01			6 mm	UNI	Tines	ENDO	SIL	RV
	477-02			6 mm	UNI	Tines	ENDO	SIL	RV
	477-04			5 mm	UNI	Screw	EPI	UNK	UNK
	477-05			6 mm	UNI	Tines	ENDO	UNK	RV
	479-01			5/6 mm	UNI	Screw	ENDO	POLY	RA/RV
	479-05			5/6 mm	UNI	Screw	ENDO	SIL	RA/RV
	480-01			6 mm	BI	Fixed Screw	ENDO	POLY	RA/RV
	482-01			6 mm	BI	Wedge	ENDO	UNK	RV
	483-01			5 mm	UNI	J+Tines	ENDO	POLY	RA
	483-02			5 mm	UNI	J+Tines	ENDO	POLY	RA
	483-03			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	483-04			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	483-05			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	483-06			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	483-07			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	483-08			5/6 mm	UNI	Passive	ENDO	SIL	RA
	483-09			5/6 mm	UNI	Passive	ENDO	POLY	RA

Intermedics, Inc. [Guidant Corp.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	484-01			6 mm	BI	Tines	ENDO	SIL	RV
	484-02			6 mm	BI	Tines	ENDO	SIL	RV
	484-03			6 mm	BI	Dynamic Stabilizer	ENDO	SIL	RV
	485-01			5 mm	UNI	Tines	ENDO	POLY	RV
	485-02			5 mm	UNI	Flange	ENDO	SIL	RV
	486-01			6 mm	BI	Tines	ENDO	POLY	RV
	486-02			6 mm	BI	Talon	ENDO	POLY	RV
	486-03			6 mm	BI	Talon	ENDO	POLY	RV
	486-04			6 In-line	BI	Passive	ENDO	POLY	RV
	487-02			5 mm	UNI	Tines	ENDO	SIL	RV
	487-05			5/6 mm	UNI	Tines	ENDO	SIL	RV
	487-06			5/6 mm	UNI	Dynamic Stabilizer	ENDO	SIL	RV
	487-07			5/6 mm	UNI	Tines	ENDO	SIL	RV
	490-01			5/6 mm Bif	BI	J+Tines	ENDO	POLY	RA
	492-01			6 mm	BI	J+Tines	ENDO	POLY	RA
	492-02			6 mm	BI	J+Dynamic Stab.	ENDO	POLY	RA
	492-03			6 mm	BI	J+Dynamic Stab.	ENDO	POLY	RA
	493-01			6 mm	UNI	Tines	ENDO	POLY	RV
	493-03			5/6 mm	UNI	Tines	ENDO	POLY	RV
	493-04			5/6 mm	UNI	Tines	ENDO	POLY	RV
	493-05			5/6 mm	UNI	Tines	ENDO	POLY	RV
	493-07			5/6 mm	UNI	Talon	ENDO	POLY	RV
	493-08			5/6 mm	UNI	Talon	ENDO	POLY	RV
	495-01			5 mm	UNI	Tines	ENDO	POLY	RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name						Insulation	Location

low-voltage leads

496-01				5 mm Bif	BI	Tines	ENDO	POLY	RV
--------	--	--	--	----------	----	-------	------	------	----

Intermedics, Inc. [Guidant Corp.]

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	497-01	Small Oval Patch		N/A	4 mm (1 pin)	N/A	Unipolar	Epi. Patch (Sm.)	Suture	Silicone	
	497-02	Large Oval Patch		N/A	4 mm (1 pin)	N/A	Unipolar	Epi. Patch (Lg.)	Suture	Silicone	
	497-04	Oval Patch		N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	497-05	Intervene		VS-1 UNI	4 mm (1 pin)	IB	Bipolar	Endo RV, 10 cm	Fixed Screw	Silicone	
	497-06	Intervene		VS-1 UNI	4 mm (1 pin)	IB	Bipolar	Endo RV, 5 cm	Fixed Screw	Silicone	
	497-07	Intervene		IS-1 UNI	DF-1 (1 pin)	IB	Bipolar	Endo RV, 5 cm	Fixed Screw	Silicone	
	497-08	Intervene		IS-1 UNI	DF-1 (1 pin)	IB	Bipolar	Endo RV, 10 cm	Fixed Screw	Silicone	
	497-09	Intervene		VS-1 UNI	4 mm (1 pin)	IB	Bipolar	Endo RV, 10 cm	Fixed Screw	Silicone	
	497-10			N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	
	497-11	RV Contour		N/A	4 mm (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	497-12	LV Contour		N/A	4 mm (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	497-13	RV Contour		N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	497-14	LV Contour		N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	497-15			N/A	4 mm (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	
	497-16			N/A	4 mm (1 pin)	N/A	Unipolar	Endo SVC	Passive	Silicone	
	497-17			N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	Passive	Silicone	
	497-19	Intervene		IS-1 UNI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
	497-20	Intervene		IS-1 UNI	DF-1 (1 pin)	IB	Bipolar	Endo RV, 5 cm	Fixed Screw	Silicone	
	497-22	Intervene		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC, 5 cm	None	Silicone	
	497-23	Intervene		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone	
	497-24	Intervene		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Fixed Screw	Silicone	



Notes

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5920	Spectrax VS	VVIOO	DH	DH	None	5 mm Bif BI	#2	70	63	70	63	Oa	3.6	
	5921	Spectrax VS	VVIOO	DJ	DJ	None	5/6 mm UNI	#2	70	63	70	63	Oa	4.2	
	5922	Spectrax VM	VVIOO	AU	AU	None	5 mm Bif BI	#2	70	63	70	63	Oa	4.7	
	5923	Spectrax VM	VVIOO	AY	AY	None	5/6 mm UNI	#2	70	63	70	63	Oa	6.4	
	5926	Xyrel VM	VVIOO	AE	AE	None	5 mm Bif BI	#2	72	67	72 (+2 ppm)	67	Pa	7.8	
	5927	Xyrel VM	VVIOO	AF	AF	None	5 mm UNI	#2	72	67	72 (+2 ppm)	67	Pa	10.2	
	5940	Spectrax S	VVIPO	NF	NF	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	G	9	
	5940LP	Spectrax S	VVIPO	PD	PD	None	3.2 mm LP BI	#2	PR	PR-10%	PR	PR-10%	G	9	
	5941	Spectrax S	VVIPO	LP	LP	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	9	
	5966	Spectrax VL	VVIOO	CY	CY	None	5 mm Bif BI	#2	70	63	70	63	Oa	7.1	
	5967	Spectrax VL	VVIOO	DE	DE	None	5/6 mm UNI	#2	70	63	70	63	Oa	9.7	
	5968	Spectrax VL	VVIOO	RF	RF	None	3.2 mm LP BI	#2	70	63	70	63	Oa	8.4	
	5972	Xyrel VL	VVIOO	MA	MA	None	5 mm Bif BI	#2	72	67	72 (+2 ppm)	67	Pa	6.1(10: 1), 8.2(15: 1)	
	5973	Xyrel VL	VVIOO	MD	MD	None	5 mm UNI	#2	72	67	72 (+2 ppm)	67	Pa	8.0 (10: 1), 10.7(15: 1)	
	5976	Spectrax SX-HT	SSIPO	JR	JR	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	G	4.8	
	5977	Spectrax SX-HT	SSIPO	KN	KN	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	4.8	
	5982	Mirel VM	VVIOO	NB	NB	None	5 mm Bif BI	#2	72	67	72 (+3 ppm)	67	Pa	8.5	
	5983	Mirel VM	VVIOO	NC	NC	None	5 mm UNI	#2	72	67	72 (+3 ppm)	67	Pa	12.1	

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	5984	Spectrax SX	SSIPO	DF	DF	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	G	(Ga)
	5984LP	Spectrax SX	SSIPO	LH	LH	None	3.2 mm LP BI	#2	PR	PR-10%	PR	PR-10%	G	(Ga)
	5985	Spectrax SX	SSIPO	DG	DG	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	(Ga)
	7005	Symbios	DDDCO	TN	TN	5 mm UNI	5 mm UNI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	7.6 @ 2.5 V, 3.8 @ 5.0 V
	7005C	Symbios	DDDCO	JS	JS	5/6 mm UNI	5/6 mm UNI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	7.6 @ 2.5 V, 3.8 @ 5.0 V
	7006	Symbios	DDDCO	UE	UE	3.2 mm LP BI	3.2 mm LP BI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	6.9 @ 2.5 V, 4.2 @ 5.0 V
	7008	Symbios (Aa)	DDDCP	UD	UD	3.2 mm LP BI	3.2 mm LP BI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	4.5 @ 5.0 V
	7026	Synergyst	DDDCO	TV	TV	3.2 mm LP BI	3.2 mm LP BI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	6.1 @ 2.5 V, 3.7 @ 5.0 V
	7027	Synergyst	DDDCO	TY	TY	5/6 mm UNI	5/6 mm UNI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V
	7027A	Synergyst	DDDCO	2A	2A	5 mm UNI	5 mm UNI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V
	7027M	Synergyst	DDDCO	SW	SW	IS-1 UNI	IS-1 UNI	#2	PR	PR (DDD), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V
	7068	Preva D	DDDCO	PIE	PIE	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.8 @ 2.5 V, 7.3 @ 3.5 V
	7070	Synergyst II	DDD/R	PW	PW	3.2 mm LP BI	3.2 mm LP BI	#2	PR	PR (DDD/R), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	6.1 @ 2.5 V, 3.7 @ 5.0 V
	7071	Synergyst II	DDD/R	SW	SW	5/6 mm UNI	5/6 mm UNI	#2	PR	PR (DDD/R), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	7071A	Synergyst II	DDD/R	1J	1J	5 mm UNI	5 mm UNI	#2	PR	PR (DDD/R), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V
	7071M	Synergyst II	DDD/R	6W	6W	IS-1 UNI	IS-1 UNI	#2	PR	PR (DDD/R), 65 (VVI)	85	75 (DOO), 65 (VOO)	Ma, 75-65	5.9 @ 2.5 V, 3.2 @ 5.0 V
	7074	Elite	DDD/RO	YE	YE	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.4 @ 2.5 V, 7.3 @ 4.2 V
	7075	Elite	DDD/RO	YF	YF	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.4 @ 2.5 V, 7.3 @ 4.2 V
	7076	Elite	DDD/RO	2E	2E	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.4 @ 2.5 V, 7.3 @ 4.2 V
	7077	Elite	DDD/RO	1X	1X	IS-1 UNI	IS-1 UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.4 @ 2.5 V, 7.3 @ 4.2 V
	7078	Preva ST DR	DDD/RO	PIF	PIF	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7084	Elite II	DDD/RO	3U	3U	3.2 mm LP BI (IS-1 Compatible) BI(Pace), UNI/BI(Sense)	3.2 mm LP BI (IS-1 Compatible) BI(Pace), UNI/BI(Sense)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.0 @ 2.5 V, 4.2 @ 4.2 V
	7085	Elite II	DDD/RO	3V	3V	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.0 @ 2.5 V, 4.2 @ 4.2 V
	7086	Elite II	DDD/RO	3Y	3Y	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.0 @ 2.5 V, 4.2 @ 4.2 V
	7088	Preva DR	DDD/RO	PGJ	PGJ	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7089	Preva DR	DDD/RO	PGK	PGK	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7100	Enertrax	VDDPO	UA	UA	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Ma	11.6 @ 2.5 V, 8.4 @ 5.0 V



IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	7100E	Enertrax	VDDPO	UH	UH	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Ma	11.6 @ 2.5 V, 8.4 @ 5.0 V	
	7107	Minuet	DDDCO	1Z1	1Z1	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.8 @ 2.5 V, 7.2 @ 4.0 V	
	7108	Minuet	DDDCO	2G1	2G1	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	11.8 @ 2.5 V, 7.2 @ 4.0 V	
	7850	Thera DR	DDD/RO	PDP	PDP	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	10.2 @ 2.5 V, 7.5 @ 3.5 V	
	7851	Thera DR	DDD/RO	PDR	PDR	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	10.2 @ 2.5 V, 7.5 @ 3.5 V	
	7852	Thera DR	DDD/RO	PDT	PDT	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	10.2 @ 2.5 V, 7.5 @ 3.5 V	
	7860	Prodigy DR	DDD/RO	PDH	PDH	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V	
	7861	Prodigy DR	DDD/RO	PDJ	PDJ	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V	
	7862	Prodigy DR	DDD/RO	PDK	PDK	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V	
	7864	Prodigy D	DDDCO	PDL	PDL	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V	
	7865	Prodigy D	DDDCO	PDM	PDM	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V	
	7866	Prodigy D	DDDCO	PDN	PDN	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V	
	7940	Thera DR	DDD/RO	PAF	PAF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V	

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	7941	Thera DR	DDD/RO	PAP	PAP	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V
	7942	Thera DR	DDD/RO	PAT	PAT	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V
	7944	Thera D	DDDCO	PBD	PBD	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V
	7945	Thera D	DDDCO	PBE	PBE	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V
	7946	Thera D	DDDCO	PBF	PBF	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.4 @ 2.5 V, 5.4 @ 3.5 V
	7950	Thera DR	DDD/RO	PBR	PBR	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	12.0 @ 2.5 V, 8.9 @ 3.5 V
	7951	Thera DR	DDD/RO	PBV	PBV	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	12.0 @ 2.5 V, 8.9 @ 3.5 V
	7952	Thera DR	DDD/RO	PBW	PBW	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	12.0 @ 2.5 V, 8.9 @ 3.5 V
	7960i	Thera DR	DDD/RO	PDB	PDB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7961i	Thera DR	DDD/RO	PDC	PDC	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7962i	Thera DR	DDD/RO	PDD	PDD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.2 @ 3.5 V
	7964i	Thera D	DDDCO	PDE	PDE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V
	7965i	Thera D	DDDCO	PDF	PDF	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	7966i	Thera D	DDDCO	PDG	PDG	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	9.7 @ 2.5 V, 7.3 @ 3.5 V
	7968i	Thera DR	DDD/RO	PGH	PGH	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.0 @ 2.5 V, 5.1 @ 3.5 V
	8079	Champion	VVIPO	PGE	PGE	None	Nonstandard UNI	Spring Clip	PR	PR	PR	PR-17%	Xb	9.6 @ 3.3 V
	8081	Premier	VVI	PBM	PBM	None	IS-1 UNI	#2	PR	PR-10%	PR	PR-20%	E	16.1 @ 2.5 V
	8084	Prevail S	SSI	PEV	PEV	None	IS-1 UNI/BI	#2	PR	PR-10%	PR	PR-20%	E	15.9 @ 2.5 V
	8085	Prevail S	SSI	PEY	PEY	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-20%	E	15.9 @ 2.5 V
	8086	Prevail S	SSI	PFA	PFA	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR-10%	PR	PR-20%	E	15.9 @ 2.5 V
	8088	Preva SR	SSIR	PGL	PGL	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8089	Preva SR	SSIR	PGM	PGM	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8158	Prodigy SR	SSIR	PEM	PEM	None	5 mm Bif UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8160	Prodigy SR	SSIR	PED	PED	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8161	Prodigy SR	SSIR	PEE	PEE	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8162	Prodigy SR	SSIR	PEF	PEF	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8164	Prodigy S	SSIC	PEG	PEG	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V, 7.9 @ 3.5 V

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	8165	Prodigy S	SSIC	PEH	PEH	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V, 7.9 @ 3.5 V
	8166	Prodigy S	SSIC	PEJ	PEJ	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V, 7.9 @ 3.5 V
	8168	Prodigy VDD	VDD	PEK	PEK	IS-1 BI	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	11.5 @ 2.5 V
	8300	Activitrax E	VVIRO	QW	QW	None	3.2 mm LP BI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8301	Activitrax E	VVIRO	QX	QX	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8316	Pasys ST	VVICO	NX	NX	None	3.2 mm LP UNI/BI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8317	Pasys ST	VVICO	NZ	NZ	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8318	Pasys ST	VVICO	PJ	PJ	None	5 mm Bif UNI/BI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8320	Pasys	SSICO	JU	JU	None	3.2 mm LP UNI/BI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8322	Pasys	SSICO	LL	LL	None	5 mm Bif UNI/BI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8329	Pasys	SSICO	VB	VB	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	10.7 @ 2.5 V, 6.9 @ 5.0 V
	8330	Minix ST	VVICO	UV	UV	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8331	Minix ST	VVICO	UX	UX	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	8331M	Minix ST	VVICO	7W	7W	None	IS-1 UNI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8340	Minix	SSICO	UQ	UQ	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8341	Minix	SSICO	US	US	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8341M	Minix	SSICO	8W	8W	None	IS-1 UNI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8342	Minix	SSICO	UU	UU	None	5 mm Bif UNI/BI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	8360	Micro Minix	SSICO	ZU	ZU	None	IS-1 UNI/BI	#2	PR	PR-10%	PR	PR-20%	E	6.3 @ 2.5 V, 1.3 (Ka) @ 5.0 V
	8400	Activitrax	VVIRO	IJ	IJ	None	3.2 mm LP BI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8402	Activitrax	VVIRO	IW	IW	None	5 mm Bif BI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8403	Activitrax	VVIRO	IY	IY	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8403M	Activitrax	VVIRO	3W	3W	None	IS-1 UNI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Wb	8.5 @ 2.5 V, 6.4 @ 5.0 V
	8412	Activitrax II	SSIRO	QE	QE	None	3.2 mm LP UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	7.4 @ 2.5 V, 5.0 @ 5.0 V
	8413	Activitrax II	SSIRO	QF	QF	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	7.4 @ 2.5 V, 5.0 @ 5.0 V

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	8413M	Activitrax II	SSIRO	4W	4W	None	IS-1 UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	7.4 @ 2.5 V, 5.0 @ 5.0 V
	8414	Activitrax II	SSIRO	QG	QG	None	5 mm Bif UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	7.4 @ 2.5 V, 5.0 @ 5.0 V
	8416	Legend	SSIRO	XT	XT	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	13.1 @ 2.5 V, 6.7 @ 5.0 V
	8417	Legend	SSIRO	WJ	WJ	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	13.1 @ 2.5 V, 6.7 @ 5.0 V
	8418	Legend	SSIRO	WN	WN	None	5 mm Bif UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	13.1 @ 2.5 V, 6.7 @ 5.0 V
	8419	Legend	SSIRO	ZT	ZT	None	IS-1 UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	13.1 @ 2.5 V, 6.7 @ 5.0 V
	8420	Spectrax SXT	SSIMO	GL	GL	None	3.2 mm LP BI	#2	PR	PR-10%	PR	PR-10%	G	13.7 @ 2.5 V, 10.9 @ 5.0 V
	8422	Spectrax SXT	SSIMO	HJ	HJ	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	G	13.7 @ 2.5 V, 10.9 @ 5.0 V
	8423	Spectrax SXT	SSIMO	HN	HN	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G	13.7 @ 2.5 V, 10.9 @ 5.0 V
	8423M	Spectrax SXT	SSIMO	3E	3E	None	IS-1 UNI	#2	PR	PR-10%	PR	PR-10%	G	13.7 @ 2.5 V, 10.9 @ 5.0 V
	8424	Legend II	SSI						PR	PR-10%		PR-20%		
	8424	Legend II	SSIRO	2P	2P	None	IS-1 UNI/BI	2	PR	65 (SSI)		65 (SOO)	E	11.2 @ 2.5V, 6.0 @ 5V
	8426	Legend II	SSIRO	2T	2T	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	11.2 @ 2.5 V, 6.0 @ 5.0 V



IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	8427	Legend II	SSIRO	2U	2U	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	11.2 @ 2.5 V, 6.0 @ 5.0 V	
	8436	Classix	SSIPO	GS	GS	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	G	5.8 @ 2.5 V, 4.3 @ 5.0 V	
	8437	Classix	SSIPO	CX	CX	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	G, Ja	5.8 @ 2.5 V, 4.3 @ 5.0 V	
	8438	Classix	SSIPO	CZ	CZ	None	3.2 mm LP BI	#2	PR	PR-10%	PR	PR-10%	G, Ja	5.8 @ 2.5 V, 4.3 @ 5.0 V	
	8446	Legend Plus	SSIRO	2Y	2Y	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	E	14.3 @ 2.5 V, 8.9 @ 5.0 V	
	8448	Legend Plus	SSI	2Z	2Z				PR	PR-10%	PR	PR-20%		10.3 @ 5.0 V	
	8940	Thera SR	SSI/R	PAU	PAU	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.3 @ 2.5 V, 6.0 @ 3.5 V	
	8941	Thera SR	SSI/R	PAV	PAV	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.3 @ 2.5 V, 6.0 @ 3.5 V	
	8942	Thera SR	SSI/R	PAW	PAW	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.3 @ 2.5 V, 6.0 @ 3.5 V	
	8944	Thera S	SSI/R	PBG	PBG	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	8945	Thera S	SSI/R	PBH	PBH	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	8946	Thera S	SSI/R	PBJ	PBJ	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	8948	Thera VDD	VDD	PAY	PAY	IS-1 BI	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	8.8 @ 2.5 V	

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	8960i	Thera-i SR	SSIR	PDU	PDU	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V, 7.8 @ 3.5 V
	8961i	Thera-i SR	SSIR	PDV	PDV	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V
	8962i	Thera-i SR	SSIR	PDW	PDW	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.6 @ 2.5 V
	8964i	Thera-i S	SSIR	PDY	PDY	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V
	8965i	Thera-i S	SSIR	PEA	PEA	None	5/6 mm UNI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V
	8966i	Thera-i S	SSIR	PEB	PEB	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	9.8 @ 2.5 V
	8968i	Thera-i VDD	VDD	PEC	PEC	IS-1 BI	IS-1 UNI/BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	11.5 @ 2.5 V
	9000	Isotopic	VVIOO	#R	#R	None	5 mm Bif BI	#6	72	67	72 (+3 ppm)	67	C, 5 ppm decrease from BOL magnet rate	20+ @ 5.0 V
	ADD01	Adapta D	DDD	PWB	PWB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	ADD01*	Adapta D	DDD	PWB	NWF	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V
	ADDR01	Adapta DR	DDDR	PWB	PWB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	ADDR01*	Adapta DR	DDDR	PWB	NWB	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V
	ADDR03	Adapta DR	DDDR	PWB	PWB	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	

* Indicates new manufacturer version



IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	ADDR03*	Adapta DR	DDDR	PWB	NWD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	ADDR06	Adapta DR	DDDR	PWB	PWB	5/6 UNI	5/6 UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	ADDR06*	Adapta DR	DDDR	PWB	NWC	5/6 mm UNI	5/6 mm UNI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	ADDRL1	Adapta DR	DDDR	PWB	PWB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	ADDRL1*	Adapta DR	DDDR	PWB	NWE	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.1 @ 2.5 V, 7.4 @ 3.5 V	
	ADDRS1	Adapta DR	DDDR	PWB	PWB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	ADDRS1*	Adapta DR	DDDR	PWB	NWA	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	5.5 @ 2.5 V, 4.3 @ 3.5 V	
	ADSR01	Adapta SR	SSIR	PWB	PWB	None	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z		
	ADSR01*	Adapta SR	SSIR	PWB	NWM	None	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	ADSR03	Adapta SR	SSIR	PWB	PWB	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z		
	ADSR03*	Adapta SR	SSIR	PWB	NWP	None	3.2 mm LP UNI/BI (IS-1 Compatible)	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	ADSR06	Adapta SR	SSIR	PWB	PWB	None	5/6 UNI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z		
	ADSR06*	Adapta SR	SSIR	PWB	NWN	None	5/6 mm UNI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	

* Indicates new manufacturer version

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	ADVDD01	Adapta VDD	VDD	PWB	PWB	IS-1 BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (VOO)	65 (VOO)	Z	
	ADVDD01*	Adapta VDD	VDD	PWB	NWG	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	6.2 @ 2.5 V, 5.5 @ 3.5 V
	AT501	AT500	DDDRP	IJF	IJF	IS-1 BI	IS-1 BI	#2	PR	PR	PR & mode	PR & mode	≤ 2.60 V / ≤ 2.20 V	
	E1DR01	EnPulse DR	DDDR	PRA	PRA	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z:	
	E1DR03	EnPulse DR	DDDR	PRB	PRB	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z:	
	E1DR06	EnPulse DR	DDDR	PRE	PRE	Unipolar 5/6 mm	Unipolar 5/6 mm	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z:	
	E1DR21	EnPulse DR	DDDR	PPT	PPT	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z:	
	E2DR01	EnPulse DR	DDDR	PNB	PNB	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	E2DR03	EnPulse DR	DDDR	PNC	PNC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	E2DR06	EnPulse DR	DDDR	PNH	PNH	Unipolar 5/6 mm	Unipolar 5/6 mm	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	E2DR21	EnPulse DR	DDDR	PMU	PMU	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	E2DR31	EnPulse DR	DDDR	PNL	PNL	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	E2DR33	EnPulse DR	DDDR	PNM	PNM	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	



IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	E2SR01	EnPulse SR	SSIR	PMW	PMW		UNI/BI IS-1	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	
	E2SR03	EnPulse SR	SSIR	PMY	PMY		UNI/BI-3.2 mm LP Medtronic	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	
	E2SR06	EnPulse SR	SSIR	PNA	PNA		Unipolar 5/6 mm	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	
	E2VDD01	EnPulse VDD	VDD	PMV	PMV	UNI/BI IS-1	UNI/BI IS-1	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	
	KD700	Kappa D 700 Series	DDD	PHJ	PHJ	IS-1 UNI/BI, Quick sec.ure	IS-1 UNI/BI, Quick sec.ure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD701	Kappa D 700 Series	DDD	PHK	PHK	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD703	Kappa D 700 Series	DDD	PHM	PHM	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD706	Kappa D 700 Series	DDD	PHL	PHL	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD901	Kappa DR 900 Series	DDD/RO	PLB	PLB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD903	Kappa DR 900 Series	DDD/RO	PLC	PLC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KD906	Kappa DR 900 Series	DDD/RO	PLD	PLD	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR401	Kappa DR 400 Series	DDD/RO	PER	PER	IS-1 UNI/BI One lead must be BI	IS-1 UNI/BI One lead must be BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.8 @ 2.5 V, 6.4 @ 3.5 V

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	KDR403	Kappa DR 400 Series	DDD/RO	PET	PET	3.2 mm LP UNI/BI (IS-1 Compatible) One lead must be BI	3.2 mm LP UNI/BI (IS-1 Compatible) One lead must be BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	7.8 @ 2.5 V, 6.4 @ 3.5 V
	KDR600	Kappa DR 600 Series	DDD/RO	PHE	PHE	IS-1 UNI/BI, Quick sec.ure	IS-1 UNI/BI, Quick sec.ure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR601	Kappa DR 600 Series	DDD/RO	PHF	PHF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR603	Kappa DR 600 Series	DDD/RO	PHH	PHH	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR606	Kappa DR 600 Series	DDD/RO	PHG	PHG	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR651	Kappa DR 600 Series	DDD/RO	PLJ	PLJ	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	KDR653	Kappa DR 600 Series	DDD/RO	PLK	PLK	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	
	KDR700	Kappa DR 700 Series	DDD/RO	PGT	PGT	IS-1 UNI/BI, Quick sec.ure	IS-1 UNI/BI, Quick sec.ure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR701 (VPP)	Kappa DR 700 Series	DDD/RO	PGU	PGU	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR703 (VPP)	Kappa DR 700 Series	DDD/RO	PGY	PGY	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR706 (VPP)	Kappa DR 700 Series	DDD/RO	PGW	PGW	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR720	Kappa DR 700 Series	DDD/RO	PGP	PGP	IS-1 UNI/BI, Quick sec.ure	IS-1 UNI/BI, Quick sec.ure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	5.5 @ 2.5 V, 4.4 @ 3.5 V

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	KDR721	Kappa DR 700 Series	DDD/RO	PGR	PGR	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	5.5 @ 2.5 V, 4.4 @ 3.5 V
	KDR730	Kappa DR 700 Series	DDD/RO	PHA	PHA	IS-1 UNI/BI, Quick sec.ure	IS-1 UNI/BI, Quick sec.ure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.2 @ 2.5 V, 7.5 @ 3.5 V
	KDR731	Kappa DR 700 Series	DDD/RO	PHB	PHB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.2 @ 2.5 V, 7.5 @ 3.5 V
	KDR733	Kappa DR 700 Series	DDD/RO	PHD	PHD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.2 @ 2.5 V, 7.5 @ 3.5 V
	KDR801	Kappa DR 800 Series	DDD/RO	PKW	PKW	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	KDR803	Kappa DR 800 Series	DDD/RO	PKY	PKY	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra	
	KDR901	Kappa DR 900 Series	DDD/RO	PKM	PKM	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR903	Kappa DR 900 Series	DDD/RO	PKN	PKN	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR906	Kappa DR 900 Series	DDD/RO	PKP	PKP	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.7 @ 2.5 V, 6.3 @ 3.5 V
	KDR921	Kappa DR 900 Series	DDD/RO	PKR	PKR	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	5.5 @ 2.5 V, 4.4 @ 3.5 V
	KDR931	Kappa DR 900 Series	DDD/RO	PKT	PKT	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.2 @ 2.5 V, 7.5 @ 3.5 V
	KDR933	Kappa DR 900 Series	DDD/RO	PKU	PKU	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	9.2 @ 2.5 V, 7.5 @ 3.5 V

Medtronic, Inc.

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	KSR403	Kappa SR 400 Series	SSIR	PGD	PGD	None	3.2 mm LP UNI/BI (IS-1 Compatible) One lead must be BI	#2	PR	65 (SSI)	85 (SOO)	65 (SOO)	Ra	7.9 @ 2.5 V, 6.9 @ 3.5 V
	KSR700	Kappa SR 700 Series	SSIR	PHR	PHR	None	IS-1 UNI/BI, Quick secure	None	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.5 @ 3.5 V
	KSR701	Kappa SR 700 Series	SSIR	PHT	PHT	None	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.5 @ 3.5 V
	KSR703	Kappa SR 700 Series	SSIR	PHW	PHW	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.5 @ 3.5 V
	KSR706	Kappa SR 700 Series	SSIR	PHU	PHU	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.5 @ 3.5 V
	KSR901	Kappa SR 900 Series	SSIR	PLF	PLF	None	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V
	KSR903	Kappa SR 900 Series	SSIR	PLG	PLG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V
	KSR906	Kappa SR 900 Series	SSIR	PLH	PLH	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V
	KVDD700	Kappa VDD 700 Series	VDDRO	PHN	PHN	IS-1 UNI/BI, Quick secure	IS-1 UNI/BI, Quick secure	None	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	6.2 @ 2.5 V, 5.6 @ 3.5 V
	KVDD701	Kappa VDD 700 Series	VDD/RO	PHP	PHP	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	6.2 @ 2.5 V, 5.6 @ 3.5 V
	KVDD901	Kappa VDD 900 Series	VDD	PLE	PLE	IS-1 BI Sense only	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	
	P1501DR	EnRhythm DR	DDDRP	PNP	PNP	Bi IS-1	Bi IS-1	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	EOL: 3 months post ERI	



IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	RED01	Relia D	DDD	PWB	NWW	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	REDR01	Relia DR	DDDR	PWB	NWT	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	RES01	Relia S	SSI	PWB	NWV	None	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	RESR01	Relia SR	SSIR	PWB	NWU	None	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	REVDD01	Relia VDD	VDD	PWB	NWX	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	6.2 @ 2.5 V, 5.5 @ 3.5 V	
	SD203	Sigma D 200 Series	DDD	PJD	PJD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SD303	Sigma D 300 Series	DDD	PJD	PJD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SDR203	Sigma DR 200 Series	DDD/RO	PJD	PJD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SDR303	Sigma DR 300 Series	DDD/RO	PJD	PJD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SDR306	Sigma DR 300 Series	DDD/RO	PJE	PJE	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SED01	Sensia D	DDD	PWL	PWL	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	SED01*	Sensia D	DDD	PWB	NWK	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	SEDR01	Sensia DR	DDDR	PWL	PWL	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		

* Indicates new manufacturer version

IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	SEDRL01*	Sensia DR	DDDR	PWB	NWL	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	SEDRL1	Sensia DR	DDDR	PWL	PWL	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	SEDRL1*	Sensia DR	DDDR	PWB	NWJ	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z	7.4 @ 2.5 V, 6.0 @ 3.5 V	
	SES01	Sensia S	SSI	PWL	PWL	None	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z		
	SES01*	Sensia S	SSI	PWB	NWS	None	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	SESRL01	Sensia SR	SSIR	PWL	PWL	None	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z		
	SESRL01*	Sensia SR	SSIR	PWB	NWR	None	IS-1 UNI/BI	2	PR	65 (VVI)	85 (SOO)	65 (VOO)	Z	7.3 @ 2.5 V, 6.4 @ 3.5 V	
	SS103	Sigma S 100 Series	SSI	PJG	PJG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SS106	Sigma S 100 Series	SSI	PJH	PJH	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SS203	Sigma S 200 Series	SSI	PJG	PJG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SS303	Sigma S 300 Series	SSI	PJG	PJG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SSRL203	Sigma SR 200 Series	SSIR	PJG	PJG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SSRL303	Sigma SR 300 Series	SSIR	PJG	PJG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		

* Indicates new manufacturer version





IPG	Model		NBG Code	X-ray/ Serial ID		Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name				RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	SSR306	Sigma SR 300 Series	SSIR	PJH	PJH	None	5/6 mm UNI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	SVDD303	Sigma VDD 300 Series	VDDD	PJD	PJD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Ra		
	VEDR01	Versa DR	DDDR	PWH	PWH	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		
	VEDR01*	Versa DR	DDDR	PWB	NWH	IS-1 UNI/BI	IS-1 UNI/BI	2	PR	65 (VVI)	85 (DOO)	65 (VOO)	Z		7.4 @ 2.5 V, 6.0 @ 3.5 V

* Indicates new manufacturer version

Medtronic, Inc.

CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage CRT devices	8040	InSync	DDDR	PIN	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85	65	Single step drop in mag rate	
	8042	InSync III	DDDR	PKF	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85	65	Single step drop in mag rate	



ICD	Model		NBD Code	X-ray/ Serial ID		Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name				RA	RV	HV			
high-voltage devices	7219D	Jewel PCD	VVEV	PAE	PAE	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7219E	Jewel PCD	VVEV	PCE	PCE	None	5 mm Bif	6.5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7220B	Jewel Plus	VVEV	PCV	PCV	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7220C	Jewel Plus	VVEV	PCW	PCW	None	IS-1 BI	DF-1 (1 port)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7220D	Jewel Plus	VVEV	PCY	PCY	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7220E	Jewel Plus	VVEV	PDA	PDA	None	5 mm Bif	6.5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V or 2nd Charge Time $\geq$ 14.5 sec.
	7221B	Micro Jewel	VVEV	PFL	PFL	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V
	7221Cx	Micro Jewel	VVEV	PFK	PFK	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V
	7221D	Micro Jewel	VVEV	PFJ	PFJ	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V
	7221E	Micro Jewel	VVEV	PFM	PFM	None	5 mm Bif	6.5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V
	7223Cx	Micro Jewel II	VVEV	PFR	PFR	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 4.91 V
	7227/5227B	GEM	VVE-VVIR	PIR	PIR	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7227/5227D	GEM	VVE-VVIR	PIR	PIR	None	IS-1 BI	DF-1 (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7227/5227E	GEM	VVE-VVIR	PIR	PIR	None	5 mm Bif	6.5 mm (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7227B	GEM	VVE-VVIR	PLN	PLN	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
157	7227Cx	GEM	VVE-VVIR	PIP	PIP	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V

Medtronic, Inc.

ICD	Model		NBD Code	X-ray/ Serial ID		Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name				RA	RV	HV			
high-voltage devices	7227D	GEM	VVE-VVIR	PLP	PLP	None	IS-1 BI	DF-1 (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7227E	GEM	VVE-VVIR	PLR	PLR	None	5 mm Bif	6.5 mm (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7229Cx	GEM II VR	VVE-VVIR	PJJ	PJJ	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7230B	Marquis VR	VVE-VVIR	PLW	PLW	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7230Cx	Marquis VR	VVE-VVIR	PKD	PKD	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7230E	Marquis VR	VVE-VVIR	PLY	PLY	None	5 mm Bif	6.5 mm (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7231Cx	GEM III VR	VVE-VVIR	PJL	PJL	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7232B	Maximo VR	VVE-VVIR	PVF	PVF	None	3.2 mm LP, IS-1 BI Compatible	6.5 mm (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7232Cx	Maximo VR	VVE-VVIR	PRN	PRN	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7232E	Maximo VR	VVE-VVIR	PVG	PVG	None	5 mm Bif	6.5 mm (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7250H	Jewel AF	DDE-DDD	PID	PID	IS-1 BI	IS-1 BI	DF-1 (3 ports)	#2	Biphasic	Battery Voltage $\leq$ 4.94 V
	7271	GEM DR	VVE-DDDR	PIM	PIM	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 4.91 V
	7273	GEM II DR	VVE-DDDR	PJK	PJK	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7274	Marquis DR	VVE-DDDR	PKC	PKC	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7275	GEM III DR	VVE-DDDR	PJM	PJM	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7276	GEM III AT	DDE-DDDR	PKE	PKE	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.55 V
	7278	Maximo DR	VVE-DDDR	PRM	PRM	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7287	Intrinsic 30	VVE-DDDR	PUA	PUA	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7288	Intrinsic	VVE-DDDR	PUB	PUB	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7290	Onyx VR	VVE-VVIR	PRP	PRP	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D144DRG	EnTrust DR	DDE-DDDR	PNR	PNR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D144VRC	EnTrust VR	VVE-VVIR	PNT	PNT	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.62 V

ICD	Model		NBD Code	X-ray/ Serial ID		Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name				RA	RV	HV			
high-voltage devices	D153ATG	EnTrust	DDE-DDDR	PNR	PNR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D153DRG	EnTrust	DDE-DDDR	PNR	PNR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D153VRC	EnTrust	VVE-VVIR	PNT	PNT	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D154ATG	EnTrust	DDE-DDDR	PNR	PNR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D154AWG	Virtuoso	DDE-DDDR	PVR	PVR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D154DRG	EnTrust	DDE-DDDR	PNR	PNR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D154VRC	EnTrust	VVE-VVIR	PNT	PNT	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.61 V
	D154VWC	Virtuoso	VVE-VVIR	PVR	PVR	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D164AWG	Virtuoso DR	DDE-DDDR	PVR	PVR	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D164VWC	Virtuoso VR	VVE-VVIR	PVR	PVR	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D224DRG	Secura DR	VVE-DDDR	PUG	PUG	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D224VRC	Secura VR	VVE-VVIR	PUG	PUX	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D234DRG	Secura DR	VVE-DDDR	PUG	PZC	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D234VRC	Secura VR	VVE-VVIR	PUG	PZF	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D244VRM	Virtuoso II VR	VVE-VVIR	PUG	PUY	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D264DRM	Maximo II DR	VVE-DDDR	PUG	PUJ	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D264VRM	Maximo II VR	VVE-VVIR	PUG	PUZ	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D274DRG	Virtuoso II DR	VVE-DDDR	PUG	PZT	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D274VRC	Virtuoso II VR	VVE-VVIR	PUG	PZR	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D284DRG	Maximo II DR	VVE-DDDR	PUG	PZM	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D284VRC	Maximo II VR	VVE-VVIR	PUG	PZN	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
159	D294DRG	Virtuoso II DR	VVE-DDDR	PUG	PZS	IS-1 BI	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D294VRC	Virtuoso II VR	VVE-VVIR	PUG	PZQ	None	IS-1 BI	DF-1 (2 ports)	2	Biphasic	Battery Voltage $\leq$ 2.63 V

Medtronic, Inc.

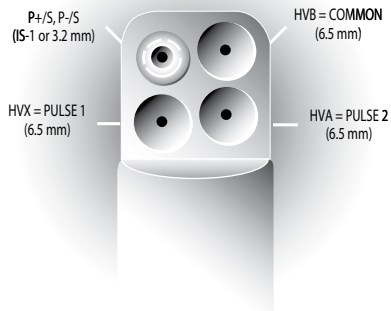
CRT-D	Model		NBD Code	X-ray/Serial ID		Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name				RA	RV	LV	HV			
high-voltage CRT devices	7272	InSync ICD	VVE-DDDR	PJP	PJP	IS-1 BI	IS-1 UNI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 4.91 V
	7277	InSync Marquis	VVE-DDDR	PLT	PLT	IS-1 BI	IS-1 UNI	IS-1 UNI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7279	InSync III Marquis	VVE-DDDR	PLU	PLU	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7285	InSync III Protect	VVE-DDDR	PPC	PPC	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7289	InSync II Marquis	VVE-DDDR	PRJ	PRJ	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7295	InSync II Protect	VVE-DDDR	PRH	PRH	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7297	InSync Sentry	VVE-DDDR	PRK	PRK	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7298	InSync Sentry	VVE-DDDR	PRK	PRK	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7299	InSync Sentry	VVE-DDDR	PRK	PRK	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7303	InSync Maximo	VVE-DDDR	PRL	PRL	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	7304	InSync Maximo	VVE-DDDR	PRL	PRL	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	C154DWK	Concerto	DDE-DDDR	PVR	PVR	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	C164AWK	Concerto	DDE-DDDR	PVR	PVR	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	C174AWK	Concerto	DDE-DDDR	PVR	PVR	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.62 V
	D224TRK	Consulta CRT-D	DDE-DDDR	PUG	PUD	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D234TRK	Consulta CRT-D	DDE-DDDR	PUG	PYZ	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D274TRK	Concerto II CRT-D	DDE-DDDR	PUG	PZV	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D284TRK	Maximo II CRT-D	DDE-DDDR	PUG	PZP	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.63 V
	D294TRK	Concerto II CRT-D	DDE-DDDR	PUG	PZU	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Biphasic	Battery Voltage $\leq$ 2.63 V

Medtronic ICD Battery Assessment

	7221, 7223, 7271, and 7272	7227, 7229, 7231, 7273, 7275, and 7276	Marquis, Maximo, Intrinsic, InSync Marquis I/II, EnTrust, InSync Sentry, and InSync Maximo	Concerto, Virtuoso	Follow-Up Frequency
Beginning of Life (BOL)	About 6.1 V or greater, Charge Time Not Applicable	About 3.1 V or greater, Charge Time Not Applicable	About 3.1 V or greater	About 3.0 V or greater	Not Applicable
Routine Follow-Up	BOL Voltage to 4.91 V, Charge Time Not Applicable	BOL Voltage to 2.55 V, Charge Time Not Applicable	BOL Voltage to 2.61 V, Charge Time Not Applicable	BOL Voltage to 2.62 V, Charge Time Not Applicable	Every 3 months
Elective Replacement Time (ERI)	Battery Voltage ≤ 4.91 V	Battery Voltage ≤ 2.55 V	Battery Voltage ≤ 2.61 V	Battery Voltage ≤ to 2.62 V	Schedule Replacement
Potential Loss of Function (PLOF) or (EOL)	Battery Voltage ≤ 4.57 V	Battery Voltage ≤ 2.40 V	3 months after ERI	3 months after ERI	Immediate Replacement

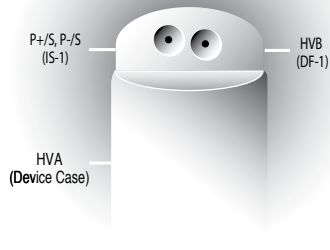
Assess battery voltage after initial "INTERROGATE." Perform a full energy charge of the capacitors and "INTERROGATE" for the charge time. Do not discharge/("DUMP") the energy from the capacitors so as to allow them to reform. If the charge time is prolonged, wait 5 minutes, dump the energy on the capacitors, and perform another programmer-initiated charge. "INTERROGATE" for, and evaluate the charge time.

Medtronic ICD Connectors – Clinical Compatibility Guide



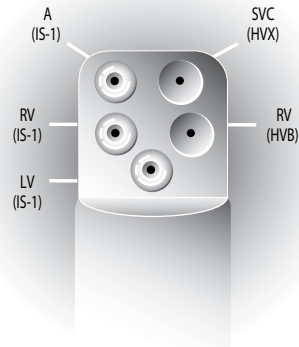
B-Style Connector
Medtronic B-Style ICDs

All subsequent models with the suffix "B" are designed to be compatible with PCD 7217B lead systems.



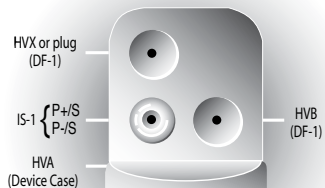
C-Style Connector
Medtronic C-Style ICDs

All subsequent models with the suffix "C" are designed to be compatible with Jewel® PCD 7219C lead systems.



CRT-D Style Connector
Medtronic K-Style ICDs

Medtronic ICD Connectors – Clinical Compatibility Guide



Cx-Style Connectors
Medtronic Cx-Style ICDs



D-Style Connector
Medtronic D-Style ICDs

All subsequent models with the suffix "D" are designed to be compatible with PCD 7217D lead systems.

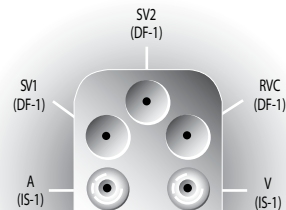


E-Style Connector
Medtronic E-Style ICDs

All subsequent models with the suffix "E" are designed to be connector compatible with CPI lead systems and with those Medtronic PCD 7217B single-pathway systems that utilize epicardial sensing leads.



DR-Style Connector
Medtronic DR-Style ICDs



H-Style Connector
Medtronic H-Style ICDs

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	2187	Attain LV	LEY	IS-1	UNI	Curved	ENDO	55D	CV
	2188	Attain CS	LEB	IS-1	BI	Canted	ENDO	55D	CS/CV
	3830	Secure Select	LFF	IS-1	BI	Fixed Screw	ENDO	55D	RA/RV
	4002	Spectraflex	JN	3.2 mm LP	BI	Tines	ENDO	80A	RV
	4003	CapSure	IH	5 mm	UNI	Tines	ENDO	80A	RV
	4003M	CapSure	IH or LAX	IS-1	UNI	Tines	ENDO	80A	RV
	4004	CapSure	PS	3.2 mm LP	BI	Tines	ENDO	80A	RV
	4004M	CapSure	PS or LAZ	IS-1	BI	Tines	ENDO	80A	RV
	4011	Target Tip	IB	5 mm	UNI	Tines	ENDO	80A	RV
	4012	Target Tip	HQ	3.2 mm LP	BI	Tines	ENDO	80A	RV
	4016	N/A	KY	3.2 mm LP	BI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4016A	N/A	XB	3.2 mm LP	BI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4023	CapSure SP	LAK	IS-1	UNI	Tines	ENDO	POLY	RV
	4024	CapSure SP	LAJ	IS-1	BI	Tines	ENDO	POLY	RV
	4033	CapSure Z	LCA	IS-1	UNI	Tines	ENDO	POLY	RV
	4034	CapSure Z	LCC	IS-1	BI	Tines	ENDO	POLY	RV
	4057	N/A	XQ	5 mm	UNI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4057M	N/A	LAN	IS-1	UNI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4058	N/A	ZY	3.2 mm LP	BI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4058M	N/A	LAW	IS-1	BI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4067	CapsureFix	LCV	IS-1	UNI	Ex./Ret. Helix	ENDO	80A	RA/RV
	4068	CapSureFix	LCE	IS-1	BI	Ex./Ret. Helix	ENDO	80A	RA/RV
165	4073	CapSure Sense	BBF	IS-1	UNI	Tines	ENDO	55D	RV

Medtronic, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	4074	CapSure Sense	BBD	IS-1	BI	Tines	ENDO	55D	RV
	4076	CapSureFix Novus	BBL	IS-1	BI	Ex./Ret. Helix	ENDO	55D	RA/RV
	4081	Target Tip	LAC	IS-1	UNI	Tines	ENDO	80A	RV
	4082	Target Tip	LAE	IS-1	BI	Tines	ENDO	80A	RV
	4092	Capsure SP Novus	LEP	IS-1	BI	Tines	ENDO	POLY	RV
	4189	Attain SD	NGW	IS-1	UNI	Preformed	ENDO	55D	CV
	4193	Attain OTW	BAA	IS-1	UNI	Preformed	ENDO	55D	CV
	4194	Attain OTW	LFG	IS-1	BI	Preformed	ENDO	55D	CV
	4195	Attain StarFix	AAD	IS-1	UNI	Deployable Lobes	ENDO	Poly	CV
	4196	Attain Ability	PVI	IS-1	BI	Preformed	ENDO	Poly	CV
	4501	Spectraflex	LF	3.2 mm LP	UNI	J+Tines	ENDO	80A	RA
	4502	Spectraflex	NK	3.2 mm LP	BI	J+Tines	ENDO	80A	RA
	4503	CapSure	MQ	5 mm	UNI	J+Tines	ENDO	80A	RA
	4503M	CapSure	MQ or LAY	IS-1	UNI	J+Tines	ENDO	80A	RA
	4504	CapSure	QM	3.2 mm LP	BI	J+Tines	ENDO	80A	RA
	4504M	CapSure	QM or LBA	IS-1	BI	J+Tines	ENDO	80A	RA
	4511	Target Tip	MB	5 mm	UNI	J+Tines	ENDO	80A	RA
	4512	Target Tip	PF	3.2 mm LP	BI	J+Tines	ENDO	80A	RA
	4523	CapSure SP	ZE	IS-1	UNI	J+Tines	ENDO	POLY	RA
	4524	CapSure SP	LAR	IS-1	BI	J+Tines	ENDO	POLY	RA
	4533	CapSure Z	LCB	IS-1	UNI	J+Tines	ENDO	POLY	RA
	4534	CapSure Z	LCD	IS-1	BI	J+Tines	ENDO	POLY	RA
	4557	N/A	VQ	5 mm	UNI	J+Ex./Ret. Helix	ENDO	80A	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	4557M	N/A	LAM	IS-1	UNI	J+Ex./Ret. Helix	ENDO	80A	RA
	4558M	N/A	LDC	IS-1	BI	J+Ex./Ret. Helix	ENDO	POLY	RA
	4568	CapsureFix	LDD	IS-1	BI	J+Ex./Ret. Helix	ENDO	POLY	RA
	4574	CapSure Sense	BBE	IS-1	BI	J+Tines	ENDO	55D	RA
	4581	Target Tip	LAD	IS-1	UNI	J+Tines	ENDO	80A	RA
	4582	Target Tip	LAF	IS-1	BI	J+Tines	ENDO	80A	RA
	4592	Capsure SP Novus	LER	IS-1	BI	J+Tines	ENDO	POLY	RA
	4951	N/A	TF	5 mm	UNI	Barbed	EPI	80A	RA/RV
	4951M	N/A	LBJ	IS-1	UNI	Barbed	EPI	80A	RA/RV
	4951P	N/A	RB	5 mm	UNI	Barbed	EPI	80A	RA/RV
	4965	CapsureEpi	LBT	IS-1	UNI	Suture	EPI	SIL	RA/RV
	4968	CapsureEpi	LEN	IS-1	BI	Suture	EPI	SIL	RA/RV
	5023	CapSure SP	SX	5 mm	UNI	Tines	ENDO	SIL	RV
	5023M	CapSure SP	LAS	IS-1	UNI	Tines	ENDO	SIL	RV
	5024	CapSure SP	SY	3.2 mm LP	BI	Tines	ENDO	SIL	RV
	5024M	CapSure SP	LAT	IS-1	BI	Tines	ENDO	SIL	RV
	5025	CapSure	RS	5 mm	UNI	Tines	ENDO	SIL	RV
	5026	CapSure	RZ	3.2 mm LP	BI	Tines	ENDO	SIL	RV
	5028	Target Tip	LCP	IS-1	BI	Tines	ENDO	SIL	RV
	5032	Capsure VDD	LCL	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5032L	Capsure VDD	LCN	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5032S	Capsure VDD	LCM	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5033	CapSure Z	LDK	IS-1	UNI	Tines	ENDO	SIL	RV

Medtronic, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	5034	CapSure Z	LDF	IS-1	BI	Tines	ENDO	SIL	RV
	5038	Capsure VDD 2	LEE	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5038L	Capsure VDD 2	LEG	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5038S	Capsure VDD 2	LEF	Atr. IS-1 BI, Vent. IS-1 BI	QUAD	Tines	ENDO	SIL	VDD
	5054	Capsure Z Novus	LEH	IS-1	BI	Tines	ENDO	SIL	RV
	5058	Extendable/Retractable Helix	LDH	IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	5061	Target Tip	GX	5 mm	UNI	Tines	ENDO	SIL	RV
	5062	Target Tip	IX	3.2 mm LP	BI	Tines	ENDO	SIL	RV
	5064	Target Tip	IZ	5 mm Bif	BI	Tines	ENDO	SIL	RV
	5067	CapsureFix	LDU	IS-1	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	5068	CapsureFix	LDJ	IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	5069	N/A	LAP	IS-1	UNI	Screw-In	EPI	SIL	RV
	5071	N/A	LAQ	IS-1	UNI	Screw-In	EPI	SIL	RV
	5072	SureFix	LEM	IS-1	BI	Endo Screw	ENDO	SIL	RA/RV
	5076	CapsureFix Novus	PJN	IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	5092	Capsure SP Novus	LET	IS-1	BI	Tines	ENDO	SIL	RV
	5523	CapSure SP	XU	5 mm	UNI	J+Tines	ENDO	SIL	RA
	5523M	CapSure SP	LAU	IS-1	UNI	J+Tines	ENDO	SIL	RA
	5524	CapSure SP	XV	3.2 mm LP	BI	J+Tines	ENDO	SIL	RA
	5524M	CapSure SP	LAV	IS-1	BI	J+Tines	ENDO	SIL	RA
	5525	CapSure SP	RQ	5 mm	UNI	J+Tines	ENDO	SIL	RA
	5534	CapSure Z	LDG	IS-1	BI	J+Tines	ENDO	SIL	RA
	5554	Capsure Z Novus	LEJ	IS-1	BI	J+Tines	ENDO	SIL	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	5561	Target Tip	JQ	5 mm	UNI	J+Tines	ENDO	SIL	RA
	5562	Target Tip	IU	3.2 mm LP	BI	J+Tines	ENDO	SIL	RA
	5568	CapsureFix	LDN	IS-1	BI	J+Ex./Ret. Helix	ENDO	SIL	RA
	5592	Capsure SP Novus	LEU	IS-1	BI	J+Tines	ENDO	SIL	RA
	5594	Capsure SP Novus	LFD	IS-1	BI	J+Tines	ENDO	SIL	RA
	5814	N/A	FC	5 mm Bif	BI	Suture	EPI	SIL	RV
	5815	N/A	DC	5 mm	UNI	Suture	EPI	SIL	RV
	5815A	N/A	BV	5 mm	UNI	Suture	EPI	SIL	RA/RV
	5816	N/A	None	5 mm Bif	BI	Straight	ENDO	SIL	RV
	5818	N/A	GV	5 mm Bif	BI	Straight	ENDO	SIL	RV
	5819	N/A	JC	5 mm Bif	BI	Straight	ENDO	SIL	RV
	6901	N/A	MC	5 mm Bif	BI	Flange	ENDO	SIL	RV
	6901R	N/A	HL	5 mm Bif	BI	Flange	ENDO	SIL	RV
	6902	Tenax	AP	5 mm Bif	BI	Flange	ENDO	SIL	RV
	6904	N/A	GC	5 mm Bif	BI	Straight	ENDO	SIL	RV
	6904A	N/A	SV	5 mm Bif	BI	Straight	ENDO	SIL	RV
	6905	N/A	None	5 mm	UNI	Flange	ENDO	SIL	RV
	6907	N/A	SC	5 mm	UNI	Flange	ENDO	SIL	RV
	6907R	N/A	FY	5 mm	UNI	Flange	ENDO	SIL	RV
	6909	N/A	CC	5 mm	UNI	Straight	ENDO	SIL	RV
	6912	Target Tip	CQ	5 mm Bif	BI	Tines	ENDO	80A	RV
169	6913	N/A	TC	5 mm	UNI	Suture	EPI	SIL	RV
	6914	N/A	None	5 mm Bif	BI	Suture	EPI	SIL	RV

Medtronic, Inc.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	6917T	N/A	WC	5 mm	UNI	Screw	EPI	SIL	RV
	6940	CapsureFix	TCP	IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA
	6950	Tenax	HC	5 mm Bif	BI	Tines	ENDO	SIL	RV
	6951	Tenax	PC	5 mm	UNI	Tines	ENDO	SIL	RV
	6954	N/A	QC	5 mm Bif	BI	Endo Screw	ENDO	SIL	RV
	6957	Spectraflex	VC	5 mm	UNI	Ex./Ret. Helix	ENDO	80A	RA/RV
	6957J	Spectraflex	GG	5 mm	UNI	J+Ex./Ret. Helix	ENDO	80A	RA
	6959	N/A	ER	5 mm	UNI	Ex./Ret. Helix	ENDO	80A	RA/RV
	6961	Tenax	TB	5 mm	UNI	Tines	ENDO	SIL	RV
	6962	Tenax	UB	5 mm Bif	BI	Tines	ENDO	SIL	RV
	6971	Spectraflex	HE	5 mm	UNI	Tines	ENDO	80A	RV
	6972	Spectraflex	ND	5 mm Bif	BI	Tines	ENDO	80A	RV
	6990	Tenax	AR	5 mm Bif	BI	J+Tines	ENDO	SIL	RA
	6990U	Spectraflex	HF	5 mm Bif	BI	J+Tines	ENDO	80A	RA
	6991	Tenax	LV	5 mm	UNI	J+Tines	ENDO	SIL	RA
	6991U	Spectraflex	JB	5 mm	UNI	J+Tines	ENDO	80A	RA
	6992	N/A	FM	5 mm Bif	BI	Straight	ENDO	SIL	CS
	6992A	N/A	GF	5 mm Bif	BI	Straight	ENDO	SIL	CS
	6993	Spectraflex	RH	5 mm	UNI	J+Tines	ENDO	80A	RA
	6994	N/A	AT	5 mm Bif	BI	Straight	ENDO	SIL	RA
	6995	N/A	KV	5 mm	UNI	Pinch on	EPI	SIL	RA

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	6721L		TBH	N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6721M		TBG	N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6721S		TBB	N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6881		YY	N/A	3.2 mm LP (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	Silicone	
	6884		YY	3.2 mm LP BI	3.2 mm LP (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Polyurethane	
	6894		YY	3.2 mm LP BI	3.2 mm LP (1 pin)	TB	Tripolar	Endo RV	Tines	Polyurethane	
	6894S		YY	3.2 mm LP BI	3.2 mm LP (1 pin)	TB	Tripolar	Endo RV	Tines	Polyurethane	
	6895		YY	N/A	3.2 mm LP (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	
	6897L		YY	N/A	3.2 mm LP (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6897M		YY	N/A	3.2 mm LP (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6897S		YY	N/A	3.2 mm LP (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6921L		TAD	N/A	6.5 mm (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6921M		TAC	N/A	6.5 mm (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6921S		TAB	N/A	6.5 mm (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone	
	6930	Sprint Fidelis	LFK	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone	
	6931	Sprint Fidelis	LFL	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Silicone	
	6932	Sprint	TCA	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone	
	6933	Transvene CS/SVC	TAT	N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	Silicone	
	6934S	Transvene RV	TBY	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone	
	6936	Transvene RV	TAV	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Polyurethane	
	6937	Transvene SVC	TBU	N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	Passive	Silicone	
	6937A	Transvene CS/SVC	TDB	N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	Silicone	
171	6939	Transvene SubQ	TBA	N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone	

Medtronic, Inc.

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	6942	Sprint	TCB	IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	6943	Sprint	TCE	IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Silicone
	6944	Sprint Quattro	TDC	IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	6945	Sprint	TDA	IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	6947	Sprint Quattro Secure	TDG	IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	6948	Sprint Fidelis	LFH	IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	6949	Sprint Fidelis	LFJ	IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	6963	Transvene CS/SVC	TAF	N/A	6.5 mm (1 pin)	N/A	Unipolar	Endo CS or SVC	Passive	Silicone
	6966	Transvene RV	TAL	3.2 mm LP BI	6.5 mm (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Polyurethane
	6996SQ	Subcutaneous Lead	TCR	N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Coil	Passive	Silicone
	6999	Transvene SubQ	TAP	N/A	6.5 mm (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone



Notes

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	KY-48			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-48-SBV			IS-1	BI	Screw	ENDO	SIL	RA/RV
	KY-48-U			5 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-48-USBV			IS-1	BI	Screw	ENDO	POLY	RA/RV
	KY-48-UV			VS-1	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-48-UX			5/6 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-48-V			VS-1	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-48-X			5/6 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-52			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-52-SBV			IS-1	BI	Screw	ENDO	SIL	RA/RV
	KY-52-U			5 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-52-USBV			IS-1	BI	Screw	ENDO	POLY	RA/RV
	KY-52-UV			VS-1	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-52-UX			5/6 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-52-V			VS-1	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-52-X			5/6 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-58			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-58-SBV			IS-1	BI	Screw	ENDO	SIL	RA/RV
	KY-58-U			5 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-58-USBV			IS-1	BI	Screw	ENDO	POLY	RA/RV
	KY-58-UV			VS-1	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-58-UX			5/6 mm	UNI	Fixed Screw	ENDO	POLY	RA/RV
	KY-58-V			VS-1	UNI	Fixed Screw	ENDO	SIL	RA/RV
	KY-58-X			5/6 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	MP-30-BI			3.2 mm LP	BI	Suture	EPI	SIL	RA/RV
	MP-30-BV			VS-1	BI	Suture	EPI	SIL	RA/RV
	MP-30-P			5 mm	UNI	Suture	EPI	UNK	RA/RV
	MP-30-PV			VS-1	UNI	Suture	EPI	SIL	RA/RV
	MP-30-PX			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
	MP-30-V			VS-1	UNI	Suture	EPI	SIL	RA/RV
	MP-30-X			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
	MP-35-BV			IS-1	BI	Suture	EPI	SIL	RA/RV
	MP-35-P			5 mm	UNI	Suture	EPI	UNK	RA/RV
	MP-35-PV			IS-1	UNI	Suture	EPI	UNK	RA/RV
	MP-40-BI			3.2 mm LP	BI	Suture	EPI	SIL	RA/RV
	MP-40-BV			VS-1	BI	Suture	EPI	SIL	RA/RV
	MP-40-P			5 mm	UNI	Suture	EPI	UNK	RA/RV
	MP-40-PV			VS-1	UNI	Suture	EPI	SIL	RA/RV
	MP-40-PX			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
	MP-40-V			VS-1	UNI	Suture	EPI	SIL	RA/RV
	MP-40-X			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
	MP-52-BI			3.2 mm LP	BI	Suture	EPI	SIL	RA/RV
	MP-52-BV			VS-1	BI	Suture	EPI	SIL	RA/RV
	MP-52-P			5 mm	UNI	Suture	EPI	UNK	RA/RV
	MP-52-PV			VS-1	UNI	Suture	EPI	SIL	RA/RV
	MP-52-PX			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
175	MP-52-V			VS-1	UNI	Suture	EPI	SIL	RA/RV

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	MP-52-X			5/6 mm	UNI	Suture	EPI	SIL	RA/RV
	MX-58-F			5 mm	UNI	Retract. Screw	ENDO	SIL	RV
	PR-44-B			IS-1	BI	Ext/Ret	ENDO	SIL	RA/RV
	PR-44-S			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-48-B			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-48-S			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-52-B			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-52-S			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-58-B			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PR-58-S			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-100-BV			IS-1	BI	Screw	EPI	SIL	RA/RV
	PY-44-PSBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-48			5 mm	UNI	Ext/Ret Screw	ENDO	UNK	RA/RV
	PY-48-P			5 mm	UNI	Ext/Ret Screw	ENDO	UNK	RA/RV
	PY-48-PSBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-48-PU			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-PUV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-PV			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-48-SBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-48-U			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-UV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-48-V			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	PY-52			5 mm	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-P			5 mm	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-PBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-PSBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-PU			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-PUV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-PV			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-SBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-52-U			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-UV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-52-V			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-58			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-API			3.2 mm LP	UNI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-BB			5 mm Bif	BI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-P			5 mm	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-58-PBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-PSBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
177	PY-58-PU			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-58-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	PY-58-PUV			VS-1	UNI	Retract. Screw	ENDO	POLY	RA/RV
	PY-58-PV			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	PY-58-SBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-58-U			5 mm	UNI	Retract. Screw	ENDO	POLY	RA/RV
	PY-58-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	PY-58-UV			VS-1	UNI	Retract. Screw	ENDO	POLY	RA/RV
	PY-58-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	PY-63-BB			5 mm Bif	BI	Ext/Ret Screw	ENDO	UNK	RA/RV
	PY-64-BI			3.2 mm LP	BI	Ext/Ret Screw	ENDO	UNK	RA/RV
	PY-66-BV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	PY-67-V			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	QY-48			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-PBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-PBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-PV			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-48-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-PBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	QY-52-PBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-PV			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-52-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-PBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-PBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-PV			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	QY-58-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	RT-48-T			5 mm	UNI	Tines	ENDO	SIL	RV
	RT-48-TJ			5 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-48-TJV			VS-1	UNI	J+Tines	ENDO	SIL	RA
	RT-48-TJX			5/6 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-48-TV			VS-1	UNI	Tines	ENDO	SIL	RV
	RT-48-TX			5/6 mm	UNI	Tines	ENDO	SIL	RV
	RT-48-W			5 mm	UNI	Web Flange	ENDO	SIL	RV
	RT-48-WJ			5 mm	UNI	J+Web Flange	ENDO	SIL	RA
	RT-48-WJV			VS-1	UNI	J+Web Flange	ENDO	SIL	RA
	RT-48-WJX			5/6 mm	UNI	J+Web Flange	ENDO	SIL	RA
179	RT-48-WV			VS-1	UNI	Web Flange	ENDO	SIL	RV
	RT-48-WX			5/6 mm	UNI	Web Flange	ENDO	SIL	RV

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RT-52-T			5 mm	UNI	Tines	ENDO	SIL	RV
	RT-52-TJ			5 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-52-TJV			VS-1	UNI	J+Tines	ENDO	SIL	RA
	RT-52-TJX			5/6 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-52-TV			VS-1	UNI	Tines	ENDO	SIL	RV
	RT-52-TX			5/6 mm	UNI	Tines	ENDO	SIL	RV
	RT-52-W			5 mm	UNI	Web Flange	ENDO	SIL	RV
	RT-52-WJ			5 mm	UNI	J+Web Flange	ENDO	SIL	RA
	RT-52-WJV			VS-1	UNI	J+Web Flange	ENDO	SIL	RA
	RT-52-WJX			5/6 mm	UNI	J+Web Flange	ENDO	SIL	RA
	RT-52-WV			VS-1	UNI	Web Flange	ENDO	SIL	RV
	RT-52-WX			5/6 mm	UNI	Web Flange	ENDO	SIL	RV
	RT-58-R			5 mm	UNI	Web Flange	ENDO	SIL	RV
	RT-58-T			5 mm	UNI	Tines	ENDO	SIL	RV
	RT-58-TJ			5 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-58-TJV			VS-1	UNI	J+Tines	ENDO	SIL	RA
	RT-58-TJX			5/6 mm	UNI	J+Tines	ENDO	SIL	RA
	RT-58-TV			VS-1	UNI	Tines	ENDO	SIL	RV
	RT-58-TX			5/6 mm	UNI	Tines	ENDO	SIL	RV
	RT-58-W			5 mm	UNI	Web Flange	ENDO	SIL	RV
	RT-58-WJ			5 mm	UNI	J+Web Flange	ENDO	SIL	RA
	RT-58-WJV			VS-1	UNI	J+Web Flange	ENDO	SIL	RA
	RT-58-WJX			5/6 mm	UNI	J+Web Flange	ENDO	SIL	RA
	RT-58-WV			VS-1	UNI	Web Flange	ENDO	SIL	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RT-58-WX			5/6 mm	UNI	Web Flange	ENDO	SIL	RV
	RU-100-TBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-100-TSBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-100-WBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-48-T			5 mm	UNI	Passive	ENDO	UNK	RV
	RU-48-T			5 mm	UNI	Tines	ENDO	POLY	RV
	RU-48-TJ			5 mm	UNI	J+Tines	ENDO	UNK	RA
	RU-48-TJ			5 mm	UNI	J+Tines	ENDO	POLY	RA
	RU-48-TJBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-48-TJSBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-48-TJV			VS-1	UNI	J+Tines	ENDO	POLY	RA
	RU-48-TJX			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	RU-48-TV			VS-1	UNI	Tines	ENDO	POLY	RV
	RU-48-TX			5/6 mm	UNI	Tines	ENDO	POLY	RV
	RU-48-W			5 mm	UNI	Web Flange	ENDO	POLY	RV
	RU-48-WJ			5 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-48-WJBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-48-WJV			VS-1	UNI	Web Flange	ENDO	POLY	RA
	RU-48-WJX			5/6 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-48-WV			VS-1	UNI	Web Flange	ENDO	POLY	RV
	RU-48-WX			5/6 mm	UNI	Web Flange	ENDO	POLY	RV
181	RU-52-T			5 mm	UNI	Tines	ENDO	POLY	RV
	RU-52-TBV			IS-1	BI	Passive	ENDO	POLY	RV

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RU-52-TJ			5 mm	UNI	J+Tines	ENDO	POLY	RA
	RU-52-TJBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-52-TJSBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-52TJV			IS-1	UNI	J+Tines	ENDO	UNK	RA
	RU-52-TJV			VS-1	UNI	J+Tines	ENDO	POLY	RA
	RU-52-TJX			5/6 mm	UNI	J+Tines	ENDO	UNK	RA
	RU-52-TJX			5/6 mm	UNI	J+Tines	ENDO	POLY	RA
	RU-52-TSBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-52-TV			VS-1	UNI	Tines	ENDO	POLY	RV
	RU-52-TX			5/6 mm	UNI	Tines	ENDO	POLY	RV
	RU-52-W			5 mm	UNI	Web Flange	ENDO	POLY	RV
	RU-52-WBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-52-WJ			5 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-52-WJBV			IS-1	BI	J+Tines	ENDO	POLY	RA
	RU-52-WJV			VS-1	UNI	Web Flange	ENDO	POLY	RA
	RU-52-WJX			5/6 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-52-WV			VS-1	UNI	Web Flange	ENDO	POLY	RV
	RU-52-WX			5/6 mm	UNI	Web Flange	ENDO	POLY	RV
	RU-58-R			5 mm	UNI	Web Flange	ENDO	UNK	RV
	RU-58-T			5 mm	UNI	Tines	ENDO	POLY	RV
182	RU-58-TBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-58-TJ			5 mm	UNI	J+Tines	ENDO	POLY	RA
	RU-58-TJV			VS-1	UNI	J+Tines	ENDO	POLY	RA
	RU-58-TJX			5/6 mm	UNI	J+Tines	ENDO	POLY	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RU-58-TSBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-58-TV			VS-1	UNI	Tines	ENDO	POLY	RV
	RU-58-TX			5/6 mm	UNI	Tines	ENDO	POLY	RV
	RU-58-W			5 mm	UNI	Web Flange	ENDO	POLY	RV
	RU-58-WBV			IS-1	BI	Passive	ENDO	POLY	RV
	RU-58-WJ			5 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-58-WJV			VS-1	UNI	Web Flange	ENDO	POLY	RA
	RU-58-WJX			5/6 mm	UNI	Web Flange	ENDO	POLY	RA
	RU-58-WV			VS-1	UNI	Web Flange	ENDO	POLY	RV
	RU-58-WX			5/6 mm	UNI	Web Flange	ENDO	POLY	RV
	RX-100-TBB			5 mm Bif	BI	Passive	ENDO	SIL	RV
	RX-100-TBI			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	RX-100-TBV			IS-1	BI	Passive	ENDO	SIL	RV
	RX-100-TSBV			IS-1	BI	Passive	ENDO	SIL	RV
	RX-100-WBV			IS-1	BI	Passive	ENDO	SIL	RV
	RX-48-TBB			5 mm Bif	BI	Tines	ENDO	SIL	RV
	RX-48-TBI			3.2 mm LP	BI	Tines	ENDO	SIL	RV
	RX-48-TBV			VS-1	BI	Tines	ENDO	SIL	RV
	RX-48-TJBI			3.2 mm LP	BI	J+Tines	ENDO	SIL	RA
	RX-48-TJBV			VS-1	BI	J+Tines	ENDO	SIL	RA
	RX-48-WBV			VS-1	BI	Webbed Tines	ENDO	SIL	RV
	RX-48-WJBV			VS-1	BI	J+Webbed Tines	ENDO	SIL	RA
183	RX-52-TBB			5 mm Bif	BI	Tines	ENDO	SIL	RV

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RX-52-TBI			3.2 mm LP	BI	Tines	ENDO	SIL	RV
	RX-52-TBV			VS-1	BI	Tines	ENDO	SIL	RV
	RX-52-TJBI			3.2 mm LP	BI	J+Tines	ENDO	SIL	RA
	RX-52-TJBV			VS-1	BI	J+Tines	ENDO	SIL	RA
	RX-52-TSBV			IS-1	BI	Passive	ENDO	SIL	RV
	RX-52-WBV			VS-1	BI	Webbed Tines	ENDO	SIL	RV
	RX-52-WJBV			VS-1	BI	J+Webbed Tines	ENDO	SIL	RA
	RX-58-TBB			5 mm Bif	BI	Tines	ENDO	SIL	RV
	RX-58-TBI			3.2 mm LP	BI	Tines	ENDO	SIL	RV
	RX-58-TBV			VS-1	BI	Tines	ENDO	SIL	RV
	RX-58-TJBI			3.2 mm LP	BI	J+Tines	ENDO	SIL	RA
	RX-58-TJBV			VS-1	BI	J+Tines	ENDO	SIL	RA
	RX-58-TSBV			IS-1	BI	Passive	ENDO	SIL	RV
	RX-58-WBV			VS-1	BI	Webbed Tines	ENDO	SIL	RV
	RX-58-WJBV			VS-1	BI	J+Webbed Tines	ENDO	SIL	RA
	RZ-52-TUV			IS-1	UNI	Passive	ENDO	POLY	RV
	RZ-52-TV			IS-1	UNI	Passive	ENDO	SIL	RV
	RZ-58-TUV			IS-1	UNI	Passive	ENDO	POLY	RV
	RZ-58-TV			IS-1	UNI	Passive	ENDO	SIL	RV
	RZ-70-TUV			IS-1	UNI	Passive	ENDO	POLY	RV
	RZ-70-TV			IS-1	UNI	Passive	ENDO	SIL	RV
	RZ-78-TUV			IS-1	UNI	Passive	ENDO	POLY	RV
	RZ-78-TV			IS-1	UNI	Passive	ENDO	SIL	RV
184	RZ-85-TUV			IS-1	UNI	Passive	ENDO	POLY	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	RZ-85-TV			IS-1	UNI	Passive	ENDO	SIL	RV
	VY-61			5 mm	UNI	Screw	ENDO	UNK	RV
	ZY-100-BV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	ZY-100-PBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	ZY-100-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-100-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-44-JUSBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-44-PJUSBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-J			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-JBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-JBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-JU			5 mm	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-JUBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-JUSBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-JUV			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-JV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-PBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RV
	ZY-48-PJ			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA
185	ZY-48-PJBV			IS-1	BI	J+Ext/Ret Screw	ENDO	SIL	RA

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	ZY-48-PJSBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-PJSBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-PJU			5 mm	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-PJUBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-PJUSBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-PJUV			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-48-PJV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-48-PSBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-PSBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-PV			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-48-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-J			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-JBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-JBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-JU			5 mm	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-JUBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-JUSBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-JUV			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-JV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-PBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	ZY-52-PJ			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-PJBV			IS-1	BI	J+Ext/Ret Screw	ENDO	SIL	RA
	ZY-52-PJSBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-PJSBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-PJU			5 mm	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-PJUBV			IS-1	BI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-PJUV			IS-1	UNI	J+Ext/Ret Screw	ENDO	POLY	RA
	ZY-52-PJV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-52-PSBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-PSBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-52-PU			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-PUV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-PV			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	ZY-52-PV			VS-1	UNI	Retract. Screw	ENDO	UNK	RA/RV
	ZY-52-U			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-UV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-52-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58-BI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58-BV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
187	ZY-58-J			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA

Oscor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	ZY-58-JBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-JBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-JV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-P			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58-PBV			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	ZY-58-PJ			5 mm	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-PJSBI			3.2 mm LP	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-PJSBV			VS-1	BI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-PJV			VS-1	UNI	J+Retract. Screw	ENDO	SIL	RA
	ZY-58-PSBI			3.2 mm LP	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58-PSBV			VS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	ZY-58-PU			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-PUSBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-PUV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-PV			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	ZY-58-PV			VS-1	UNI	Retract. Screw	ENDO	UNK	RA/RV
	ZY-58-U			5 mm	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-USBV			IS-1	BI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-UV			IS-1	UNI	Ext/Ret Screw	ENDO	POLY	RA/RV
	ZY-58-V			VS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV



Notes

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	AY61			5 mm	UNI	Screw	UNK	UNK	RV
	CY61			5 mm	UNI	Screw	UNK	UNK	RV
	FF61			5 mm	UNI	Tines	UNK	UNK	RV
	FX61			5 mm	UNI	Wedge	UNK	UNK	RV
	FY61			5 mm	UNI	Screw	UNK	UNK	RV
	FY63			5 mm Bif	BI	Screw	UNK	UNK	RV
	FY64			IS-1	BI	Screw	UNK	UNK	RV
	HT48P-B			IS-1	BI	Tines	UNK	UNK	RV
	HT52P-B			IS-1	BI	Tines	UNK	UNK	RV
	HT58P-B			IS-1	BI	Tines	UNK	UNK	RV
	JY61			5 mm	UNI	Retractable Screw	UNK	UNK	RA/RV
	KY61			5 mm	UNI	Screw	UNK	UNK	RV
	MF61			5 mm	UNI	Wedge	UNK	UNK	RV
	MP-41			5 mm	UNI		UNK	UNK	RV
	MX61			5 mm	UNI	Fins	UNK	UNK	RV
	MX63			5 mm Bif	BI	Fins	UNK	UNK	RV
	MX64			IS-1	BI	Fins	UNK	UNK	RV
	MZ61			5 mm	UNI	Wedge	UNK	UNK	RV
	P-U61			5 mm	UNI		UNK	UNK	RV
	PY61			5 mm	UNI	Retractable Screw	UNK	UNK	RV
	PY63			5 mm Bif	BI	Retractable Screw	UNK	UNK	RV
	PY64			IS-1	BI	Retractable Screw	UNK	UNK	RV
	PY67			IS-1	UNI	Retractable Screw	UNK	UNK	RV
	QF61			5 mm	UNI		UNK	UNK	RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	QX61			5 mm	UNI		UNK	UNK	RV
	R-F61			5 mm	UNI	Tines	UNK	UNK	RV
	RT-61			5 mm	UNI	Tines	UNK	UNK	RV
	RU-61			5 mm	UNI	Tines	UNK	UNK	RV
	VY61			5 mm	UNI	Screw	UNK	UNK	RV

Pacesetter, Inc. [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	1102	Tempo VR	VVIR	tJJ	None	VS-1 BI	#2	PR	63	100	80	C	
	1902	Tempo V	VVIC	tMJ	None	VS-1 UNI/BI	#2	PR	63	100	80	C	8.1
	2002B	Solus	SSIR	AA	None	5 mm Bif UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2002L	Solus	SSIR	AA	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2002T	Solus	SSIR	AA	None	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2003M	Solus	SSIR	None	None	5 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2003M/S	Solus	SSIR	AB	None	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2003S	Solus	SSIR	None	None	6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2005L	Phoenix 2	SSIC	AD	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2005T	Phoenix 2	SSIC	AD	None	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2006L	Solus II	SSIR	AE	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2006T	Solus II	SSIR	AE	None	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2007K	Solus II	SSIR	AF	None	IS-1 UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2007M/S	Solus II	SSIR	AF	None	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2008L	Phoenix 2	SSIC	AG or PHX	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2008T	Phoenix 2	SSIC	AG or PHX	None	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2009K	Phoenix 2	SSIC	AH	None	IS-1 UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2009M/S	Phoenix 2	SSIC	AH	None	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2010T (SN < 11,999)	Paragon	DDDC	AI	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2010T (SN > 12,000)	Paragon	DDDC	AI	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2011M	Paragon	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	2011M/S	Paragon	DDDC	AJ	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2012T	Paragon	DDDC	None	VS-1A BI	VS-1A BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2016L	Paragon II	DDDC	AL	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2016T	Paragon II	DDDC	AL	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2017T	Bilog II	DDDC	AC or AI	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	7.2	
	2019T	Bilog IV	DDDC	AL	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	7.7	
	2020L	Synchrony	DDDR	None	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2020T	Synchrony	DDDR	None	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2022L	Synchrony II	DDDR	AN	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2022T	Synchrony II	DDDR	AN	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2023M	Synchrony II	DDDR	None	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2023M/S	Synchrony II	DDDR	AO	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2023U	Synchrony II	DDDR	AN	VS-1A UNI	VS-1A UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	8	
	2028L	Synchrony III	DDDR	AP	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2028T	Synchrony III	DDDR	AP	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2029K	Synchrony III	DDDR	AR	IS-1 UNI	IS-1 UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2029M/S	Synchrony III	DDDR	AR	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2060BL	AddVent	VDDR	AS	VS-1B UNI/BI Pace, BI Sense	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	9.3	
	2060LR (Aa)	AddVent	VDDR	AS	Special	Special	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2091K	Polarity	DDDR	GK	VS-1B UNI Pace, UNI/BI Sense	VS-1B UNI	UNK	PR	PI+100 ms	PR	PI+100 ms	F	8.05	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	2091M/S	Polarity	DDDR	GK	5/6 UNI Pace, UNI/BI Sense	5/6 UNI/BI	UNK	PR	PI+100 ms	PR	PI+100 ms	F	8.05
	2102	Tempo DR	DDDR	tHS	VS-1 BI	VS-1 BI	#2	PR	63	100	80	C	
	2204L	Phoenix III	SSIC	BC	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2204T	Phoenix III	SSIC	BC	None	VS-1A UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2205K	Phoenix III	SSIC	BD	None	IS-1 UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2205M/S	Phoenix III	SSIC	BD	None	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	221	Programalith	SSIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221 A	Programalith	SSIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221 A-0	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221 A-1	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221 A-3	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221 A-6	Programalith	SSIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221-0	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221-1	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	
	221-3	Programalith	VVIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	221-6	Programalith	SSIC	None	None	6 mm UNI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222	Programalith	SSIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222-0	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222-1	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222-3	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222-6	Programalith	SSIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222A	Programalith	SSIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222A-0	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222A-1	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222A-3	Programalith	VVIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	222A-6	Programalith	SSIC	None	None	5 mm Bif BI	#4	PR	PR	Pr 5%	PR-10 or 15%	D, Va, Wa, BOL mag is 5% < PR		
	223	Programalith AV	DVIC	None	5 mm UNI	5 mm UNI	#4	PR	PR	90	77	B		
	225	Programalith II	SSIC	None	None	6 mm UNI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	225-0	Programalith II	VVIC	None	None	6 mm UNI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	2250L	Trilogy SR	SSIR	MM	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2252L	Dynasty SR	SSIR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	7.7
	225-3	Programalith II	VVIC	None	None	6 mm UNI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	225-6	Programalith II	SSIC	None	None	6 mm UNI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	226	Programalith II	SSIC	None	None	5 mm Bif BI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	226-0	Programalith II	VVIC	None	None	5 mm Bif BI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	2260L	Trilogy SR+	SSIR	MM	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2262L	Dynasty SR+	SSIR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	7.7
	226-3	Programalith II	VVIC	None	None	5 mm Bif BI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	2264L	Trilogy SR+	SSIR	MM	None	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2264L	Trilogy SR+	SSIR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	7.7
	226-6	Programalith II	SSIC	None	None	5 mm Bif BI	#2	PR	PR	Pr 5%	PR-10%	D, 10% < prog rate	
	2304L	Paragon III	DDDC	BK	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2304T	Paragon III	DDDC	BK	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2305M/S	Paragon III	DDDC	BN	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2308L	Trilogy DC	DDDC	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	
	2310L	Dynasty DC	DDDC	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	2314L	Paragon III	DDDC	BK	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2314T	Paragon III	DDDC	BK	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2315M/S	Paragon III	DDDC	BN	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2318L	Trilogy DC+	DDDM	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2320L	Dynasty DC+	DDDM	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5	
	2350L	Trilogy DR	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2352L	Dynasty DR	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5	
	2353	Dynasty DR	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5	
	2360L	Trilogy DR+	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2362L	Dynasty DR+	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5	
	2363	Dynasty DR+	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F	5	
	2364L	Trilogy DR+	DDDR	MM	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	PR	PI+100 ms	F		
	2400L	Regency SR+	SSIR	S*00	None	VS-1B UNI/BI	#2	PR	PR	100	85	C		
	2402L	Regency SC+	SSIC	S*02	None	VS-1B UNI/BI	#2	PR	PR	100	85	C		
	2404L	Regency SR	SSIR	S*04	None	VS-1B UNI/BI	#2	PR	PR	100	85	C		
	2405K	Regency SR	SSIR	S*05	None	IS-1 UNI	#2	PR	PR	100	85	C		
	2405M/S	Regency SR	SSIR	S*05	None	5/6 UNI	#2	PR	PR	100	< 85	C	9.1	
	2406L	Regency SC	SSIC	S*06	None	VS-1B UNI/BI	#2	PR	PR	100	85	C		
	2406L	Regency SC	SSIC	S*06	None	VS-1B UNI/BI	#2	PR	PR	100	< 85	C	9.1	
	2407K	Regency SC	SSIC	S*07	None	IS-1 UNI	#2	PR	PR	100	85	C		
	2407M/S	Regency SC	SSIC	S*07	None	5/6 UNI	#2	PR	PR	100	< 85	C	9.1	

Pacesetter, Inc. [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	2408L	Regency SCX	SSIC	S*08	None	VS-1B UNI/BI	#2	PR	PR	100	< 85	C	9.1	
	2410L	Solus Mini SR+	SSIR	S*00	None	VS-1B UNI/BI	#2	PR	PR	100	85	C	16.0	
	2412	Solus Mini SC+	SSIC	S*02	None	VS-1B UNI/BI	#2	PR	PR	100	85	C	16.0	
	2414	Solus Mini SR	SSIR	S*04	None	VS-1B UNI/BI	#2	PR	PR	100	85	C	9.1	
	2415	Solus Mini SR	SSIR	S*05	None	VS-1B UNI	#2	PR	PR	100	85	C	9.1	
	2416	Solus Mini SC	SSIC	S*06	None	VS-1B UNI/BI	#2	PR	PR	100	85	C	9.1	
	2417	Solus Mini SC	SSIC	S*07	None	VS-1B UNI	#2	PR	PR	100	85	C	9.1	
	2418	Solus Mini SCX	SSIC	S*08	None	VS-1B UNI/BI	#2	PR	PR	100	85	C	9.1	
	2425T	Microny SR+	SSIR	S*25	None	IS-1 BI	#2	PR	PR	100	85	C		
	2426T	Solus u SR+	SSIR	S*25	None	IS-1 UNI Pace, BI Sense	#2	PR	PR	100	85	C	8.3	
	2525T	Microny II SR+	SSIR	S*25	None	IS-1 UNI pace, BI sense	#2	PR	PR	100	≤ 85	C		
	2535K	Microny K	SSIR	S*25	None	IS-1 UNI	#2	PR	PR	100	≤ 85	C		
	261	AFP	SSIC	None	None	6 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	262	AFP	SSIC	None	None	5 mm Bif BI	#2	PR	PR	PR +14%	PR-11%	Ta		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	262T	AFP	SSIC	None	None	VS-1A BI	#2	PR	PR	PR +14%	PR-11%	Ta		
	273	AFP	DDIC	None	5 mm UNI	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	275	AFP	VDDC	None	None	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	277	AFP	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	281	AFP	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	283	AFP II	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	285	Genesis	DDDC	None	5 mm UNI	5 mm UNI	#2	PR	PR	PR +14%	PR-11%	Ta		
	285K	Genesis	DDDC		VS-1B UNI	VS-1B UNI	#2	PR	PR	PR +14%	PR-11%	Ta	7	
	285R	Genesis	DDDC		5 UNI	5 UNI	#2	PR	PR	PR +14%	PR-11%	Ta	7	
	286	AFP	DDDC	None	VS-1B BI	VS-1B BI	#2	PR	PR	PR +14%	PR-11%	Ta		
	2902	Tempo D	DDDC	tKJ	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	63	100	80		5.5	
	301	Vivalith II	VVI		None	6 mm UNI	#6	71	65	78	72		8	
	401	Vivalith II	VVI		None	6 mm UNI	#6	71	65	78	72		12	
	MDL-201	Vivalith	VVI	None	None	6 mm UNI	#4	71	63	71	63	C, 11%		
	MDL-201A	Vivalith 5	VVI	None	None	6 mm UNI	#4	71	63	71	63	C, 11%		

Pacesetter, Inc. [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	MDL-201B	Vivalith 10	VVI	None	None	6 mm UNI	#4	71	63	71	63	C, 11%		
	TDL-201	Vivalith	VVI	None	None	5 mm Bif BI	#4	71	63	71	63	C, 11%		
	TDL-201A	Vivalith 5	VVI	None	None	5 mm Bif BI	#4	71	63	71	63	C, 11%		
	TDL-201B	Vivalith 10	VVI	None	None	5 mm Bif BI	#4	71	63	71	63	C, 11%		





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	1002T			VS-1/IS-1	BI	Large Fins	ENDO	SIL	RV
	1004T			VS-1/IS-1	BI	J+Large Fins	ENDO	SIL	RA
	1007M			5 mm	UNI	Endo Screw	ENDO	SIL	RA/RV
	1010B			5 mm Bif	BI	Small Fins	ENDO	SIL	RV
	1010T			IS-1	BI	Passive	ENDO	SIL	RV
	1012T			VS-1/IS-1	BI	J+Small Fins	ENDO	SIL	RA
	1013M			5 mm	UNI	J+Small Fins	ENDO	SIL	RA
	1015M			5 mm	UNI	Small Fins	ENDO	SIL	RV
	1015MC			5 mm	UNI	Fins	ENDO	SIL	RV
	1015S			6 mm	UNI	Small Fins	ENDO	SIL	RV
	1016T			VS-1/IS-1	BI	Small Fins	ENDO	SIL	RV
	1018T			VS-1/IS-1	BI	Endo Screw	ENDO	SIL	RA/RV
	1019K			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	1019M			5 mm	UNI	Screw	ENDO	SIL	RA/RV
	1021K			IS-1	UNI	Passive	ENDO	SIL	RV
	1021M			5 mm	UNI	Passive	ENDO	SIL	RV
	1021S			6 mm	UNI	Passive	ENDO	SIL	RV
	1022T			VS-1/IS-1	BI	J+Tines	ENDO	SIL	RA
	1023M			5 mm	UNI	J+Tines	ENDO	SIL	RA
	1024K			IS-1	UNI	Passive	ENDO	SIL	RV
	1024M			5 mm	UNI	Passive	ENDO	SIL	RV
201	1025M			5 mm	UNI	Tines	ENDO	SIL	RV
	1025S			6 mm	UNI	Passive	ENDO	SIL	RV

Pacesetter, Inc. [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	1026T			VS-1/IS-1	BI	Tines	ENDO	SIL	RV
	1027K			IS-1	UNI	Passive	ENDO	SIL	RA
	1027M			5 mm	UNI	Passive	ENDO	SIL	RA
	1028T			VS-1/IS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	1033M			5 mm	UNI	J+Small Fins	ENDO	POLY	RA
	1035M			5 mm	UNI	Small Fins	ENDO	POLY	RV
	1036T			VS-1/IS-1	BI	Small Fins	ENDO	POLY	RV
	1038T			VS-1/IS-1	BI	Tines	ENDO	POLY	RV
	1041K				UNI	Screw	EPI	SIL	RV
	1041M			5 mm	UNI	Screw	EPI	SIL	RV
	1043K			VS-1/IS-1	UNI	Screw	EPI	SIL	RV
	1050T			IS-1	BI	Passive	ENDO	SIL	RV
	1052T			VS-1/IS-1	BI	Fins	ENDO	SIL	RA
	1055K			IS-1	UNI	CS	ENDO	SIL	RV
	1055T			IS-1	BI	CS	ENDO	SIL	RV
	1085K			IS-1	UNI	Passive	ENDO	SIL	RV
	1124C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1126C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1128C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1135K			VS-1/IS-1	UNI	Fins	ENDO	SIL	RA/RV
	1136T			VS-1/IS-1	BI	Fins	ENDO	SIL	RV
202	1142T			VS-1/IS-1	BI	J+Tines	ENDO	SIL	RA
	1143K			VS-1/IS-1	UNI	J+Tines	ENDO	SIL	RA
	1145K			VS-1/IS-1	UNI	Tines	ENDO	SIL	RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	1146T			VS-1/IS-1	BI	Tines	ENDO	SIL	RV
	1148T			VS-1/IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	1188K			VS-1/IS-1	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	1188T			VS-1/IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	1212T			IS-1	BI	Passive	ENDO	SIL	RA
	1216T			VS-1/IS-1	BI	Small Fins	ENDO	SIL	RV
	1222T			VS-1/IS-1	BI	J+Tines	ENDO	SIL	RA
	1226T			VS-1/IS-1	BI	Tines	ENDO	SIL	RV
	1226TC			VS-1/IS-1	BI	Tines	ENDO	SIL	RV
	1235K			IS-1	UNI	Fins	ENDO	SIL	RV
	1236T			IS-1	BI	Fins	ENDO	SIL	RV
	1242T			IS-1	BI	Tines	ENDO	SIL	RA
	1243K			IS-1	UNI	Tines	ENDO	SIL	RA
	1245K			IS-1	UNI	Tines	ENDO	SIL	RV
	1246T			IS-1	BI	Tines	ENDO	SIL	RV
	1324C			IS-1	QUAD	Tines	EPI	SIL	VDD
	1326C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1328C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1335K			IS-1	UNI	Fins	ENDO	SIL	RV
	1336T			IS-1	BI	Fins	ENDO	SIL	RV
	1342T			VS-1/IS-1	BI	Tines	ENDO	SIL	RA
203	1343K			IS-1	UNI	Tines	ENDO	SIL	RA
	1345K			IS-1	UNI	Tines	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	1346T			IS-1	BI	Tines	ENDO	SIL	RV
	1354C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1356C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1358C			IS-1	QUAD	Tines	ENDO	SIL	VDD
	1368			IS-1Bif	BI	Passive	ENDO	SIL	RA/RV
	1388K			IS-1	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	1388T			IS-1	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	1388TC			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	1400K			IS-1	UNI	Tines	ENDO	SIL	RA/RV
	1401K			VS-1/IS-1	UNI	Tines	ENDO	SIL	RA/RV
	1401T			VS-1/IS-1	BI	Tines	UNK	SIL	RA/RV
	1402K			VS-1/IS-1	UNI	Fins	ENDO	SIL	RA/RV
	1402T			VS-1/IS-1	BI	Fins	UNK	UNK	RA/RV
	1403K			VS-1/IS-1	UNI	Fins	ENDO	SIL	RA/RV
	1403T			VS-1/IS-1	BI	Fins	UNK	SIL	RA/RV
	1420K			IS-1	UNI	Tines	ENDO	SIL	RA/RV
	1420T			IS-1	BI	Tines	ENDO	SIL	RA
	1421K			IS-1	UNI	Tines	ENDO	SIL	RA/RV
	1421T			IS-1	BI	Tines	ENDO	SIL	RA
	1442T			IS-1	BI	Passive	ENDO	SIL	UNK
	1443K			IS-1	UNI	Passive	ENDO	SIL	UNK
	1445K			IS-1	UNI	Passive	ENDO	SIL	UNK
	1446T			IS-1	BI	Passive	ENDO	SIL	RV
	1450K			IS-1	UNI	Tines	ENDO	SIL	RA/RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	1450T			IS-1	BI	Tines	ENDO	SIL	RA/RV
	1452K			IS-1	UNI	Fins	ENDO	SIL	RA/RV
	1452T			IS-1	BI	Fins	ENDO	SIL	RA/RV
	1470K			IS-1	UNI	Tines	ENDO	SIL	RV
	1470T			IS-1	BI	Tines	ENDO	SIL	RV
	1472K			IS-1	UNI	Fins	ENDO	SIL	RV
	1472T			IS-1	BI	Fins	ENDO	SIL	RV
	1474K			IS-1	UNI	Tines	ENDO	SIL	RA
	1474T			IS-1	BI	Tines	ENDO	SIL	RA
	1480K			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	UNK
	1480T			IS-1	BI	Ext/Ret Screw	ENDO	SIL	UNK
	1488K			IS-1	UNI	Retract. Screw	ENDO	SIL	RA/RV
	1488T			IS-1	BI	Retract. Screw	ENDO	SIL	RA/RV
	1488TC			IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	283C			SE	UNI		EPI	SIL	RV
	2835C			6 mm	UNI	Screw	EPI	SIL	RV
	288C			SE	UNI	Passive	ENDO	SIL	RV
	288D			SE	UNI	Passive	ENDO	SIL	RV
	288E			SE	UNI	Passive	ENDO	SIL	RV
	288F			SE	UNI	Passive	ENDO	SIL	RV
	288J			SE	UNI	Passive	ENDO	SIL	RV
	288K			SE	UNI	Passive	ENDO	SIL	RV
205	288L			SE	UNI	Passive	ENDO	SIL	RV

Pacesetter, Inc. [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	288M			SE	UNI	Passive	ENDO	SIL	RV
	288SJ			6 mm	UNI	Passive	ENDO	SIL	RV
	288SK			6 mm	UNI	Passive	ENDO	SIL	RV
	288SL			6 mm	UNI	Passive	ENDO	SIL	RV
	288SM			6 mm	UNI	Passive	ENDO	SIL	RV
	288TF			SE	UNI	Passive	ENDO	SIL	RV
	288TJ			SE	UNI	Passive	ENDO	SIL	RV
	288TM			SE	UNI	Passive	ENDO	SIL	RV
	289M			SE	UNI	Passive	ENDO	SIL	RV
	289SM			6 mm	UNI	Passive	ENDO	SIL	RV
	401S			6 mm	UNI	Screw	EPI	SIL	RV
	402K			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	402S			6 mm	UNI	Screw	ENDO	SIL	RA/RV
	404B			5 mm Bif	BI	Passive	ENDO	SIL	RV
	405L			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	407B			5 mm Bif	BI	Passive	ENDO	SIL	RV
	408L			3.2 mm LP	BI	Passive	ENDO	SIL	RV
	411S			6 mm	UNI	Passive	ENDO	SIL	RV
	412M			5 mm	UNI	Passive	ENDO	SIL	RV
	412S			6 mm	UNI	Passive	ENDO	SIL	RV
	414S			6 mm	UNI	Passive	ENDO	SIL	RV
	415S			6 mm	UNI	Passive	ENDO	SIL	RV
	416S			6 mm	UNI	Passive	ENDO	SIL	RA
206	418S			6 mm	UNI	Passive	ENDO	SIL	RA



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	423M			5 mm	UNI	Passive	ENDO	SIL	RA/RV
	423S			6 mm	UNI	Passive	ENDO	SIL	RA/RV
	424K			IS-1	UNI	Passive	ENDO	SIL	RA/RV
	424M			5 mm	UNI	Passive	ENDO	SIL	RA/RV
	424S			6 mm	UNI	Passive	ENDO	SIL	RA/RV
	588A			UNK	UNI		ENDO	POLY	RV
	588C			6 mm	UNI	Passive	ENDO	POLY	RV
	588D			6 mm	UNI		ENDO	POLY	RV
	588E			6 mm	UNI		ENDO	POLY	RV
	588J			SE	UNI	Passive	ENDO	POLY	RV
	588K			SE	UNI	Passive	ENDO	POLY	RV
	588L			SE	UNI		ENDO	POLY	RV
	588M			SE	UNI	Passive	ENDO	POLY	RV
	588SA			6 mm	UNI	Passive	ENDO	POLY	RV
	588SC			6 mm	UNI	Passive	ENDO	POLY	RV
	588SJ			6 mm	UNI	Passive	ENDO	POLY	RV
	588SL			6 mm	UNI	Passive	ENDO	POLY	RV
	588SM			6 mm	UNI	Passive	ENDO	POLY	RV
	813			6 mm	UNI	Flange	ENDO	SIL	RV
	815			6 mm	UNI	Flange	ENDO	SIL	RV
	816			5 mm Bif	BI	Flange	ENDO	SIL	RV
	817			6 mm	UNI	Tines	ENDO	SIL	RV
207	818			5 mm Bif	BI	Tines	ENDO	SIL	RV

Pacesetter, Inc. [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	818A			5 mm Bif	BI	Tines	ENDO	SIL	RV
	819			6 mm	UNI	Tines	ENDO	SIL	RV
	820			5 mm Bif	BI	Tines	ENDO	SIL	RV
	825			5 mm	UNI	Tines	ENDO	SIL	RV
	829			5 mm	UNI	Tines	ENDO	SIL	RA
	829A			5 mm	UNI	J+Tines	ENDO	SIL	RA
	829F			5 mm	UNI	Fins	ENDO	SIL	RA
	831			5 mm	UNI	Screw	EPI	SIL	RV
	833			6 mm	UNI	Tines	ENDO	SIL	RV
	841			5 mm	UNI	Tines	ENDO	SIL	RV
	841F			5 mm	UNI	Large Fins	ENDO	SIL	RV
	850			5 mm Bif	BI	Tines	ENDO	SIL	RV
	850F			5 mm Bif	BI	Large Fins	ENDO	SIL	RV
	851			5 mm	UNI	Tines	ENDO	SIL	RV
	851F			5 mm	UNI	Large Fins	ENDO	SIL	RV
	853			5 mm	UNI	Tines	ENDO	SIL	RA
	853F			5 mm	UNI	J+Large Fins	ENDO	SIL	RA
	854			3.2 mm LP	BI	Tines	ENDO	SIL	RV
	854F			3.2 mm LP	BI	Large Fins	ENDO	SIL	RV
	855			6 mm	UNI	Tines	ENDO	SIL	RV
	855F			6 mm	UNI	Large Fins	ENDO	SIL	RV
	856			3.2 mm LP	BI	Tines	ENDO	SIL	RA
	856F			3.2 mm LP	BI	J+Large Fins	ENDO	SIL	RA
	857			5 mm	UNI	Retract. Screw	ENDO	SIL	RA/RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	859			5 mm	UNI	Tines	ENDO	SIL	RV
	859F			5 mm	UNI	Large Fins	ENDO	SIL	RV
	861			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	865			5 mm	UNI	Tines	ENDO	POLY	RV
	865F			5 mm	UNI	Large Fins	ENDO	POLY	RV
	866			5 mm Bif	BI	Tines	ENDO	POLY	RV
	866F			5 mm Bif	BI	Large Fins	ENDO	POLY	RV
	867			6 mm	UNI	Tines	ENDO	POLY	RV
	867F			6 mm	UNI	Large Fins	ENDO	POLY	RV
	869			5 mm	UNI	Tines	ENDO	UNK	RA
	869F			5 mm	UNI	J+Large Fins	ENDO	POLY	RA
	877			5 mm	UNI	Fixed Screw	ENDO	SIL	RA/RV
	881			5 mm	UNI	Passive	ENDO	SIL	RV
	BL-601			PSI Screw	BI	Flange	ENDO	SIL	RV
	BL-602			PSI Screw	BI	Blunt	ENDO	SIL	RV
	BL-652			PSI Screw	BI	Suture-on	EPI	SIL	RV
	BL-653			PSI Screw	BI	Suture-on	EPI	SIL	RV
	BL-654			PSI Screw	BI	Suture-on	EPI	SIL	RV
	BL-655			PSI Screw	BI	Suture-on	EPI	SIL	RV
	BL-656			PSI Screw	BI	Suture-on	EPI	SIL	RV
	BL-801			PSI Screw	BI	Flange	ENDO	SIL	RV
	BL-802			PSI Screw	BI		ENDO	SIL	RV
209	ML-150			5 mm	UNI	Screw	EPI	SIL	RV

Pacesetter, Inc. [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	ML-151			5 mm	UNI	Screw	EPI	SIL	RV
	UL-603			PSI Screw	UNI	Flange	ENDO	SIL	RV
	UL-604			PSI Screw	UNI	Flange	ENDO	SIL	RV
	UL-658			PSI Screw	UNI	Suture-on	EPI	SIL	RV
	UL-659			PSI Screw	UNI	Suture-on	EPI	SIL	RV
	UL-804			PSI Screw	UNI	Flange	ENDO	SIL	RV
	UL-813			6 mm	UNI	Flange	ENDO	SIL	RV





Notes

Possis

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	1111			IS-1	UNI	Screw	EPI	SIL	RV
	1112			IS-1	UNI	Screw	EPI	SIL	RV
	1113			5 mm	UNI	Screw	EPI	SIL	RV
	1114			5 mm	UNI	Screw	EPI	SIL	RV
	1211			IS-1	BI	Screw	EPI	SIL	RV
	1212			IS-1	BI	Screw	EPI	SIL	RV
	511111	Myopore		IS-1	UNI	Screw	EPI	SIL	RV
	511112	Myopore		IS-1	UNI	Screw	EPI	SIL	RV





Notes

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	2030K	Sensolog III	SSIR	S*30	VS-1	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	8.3
	2030T	Sensolog III	SSIR	S*30	VS-1	Unipolar pace/Bipolar sense	#2	PR/PR		99	85	C, Ab, Bb	8.3
	2033B	Sensolog III	SSIR	S*33	None	5 mm Bif UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2033K	Sensolog III	SSIR	S*33	VS-1	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	8.4
	2033L	Sensolog III	SSIR	S*33	None	VS-1B UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2033M	Sensolog III	SSIR	S*33	None	5 mm UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2033S	Sensolog III	SSIR	S*33	None	6 mm UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2033T	Sensolog III	SSIR	S*33	None	VS-1A UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2034K	Sensolog III	SSIR	S*34	VS-1A	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	6.6
	2034L	Sensolog III	SSIR	S*34	None	VS-1B UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2034M	Sensolog III	SSIR	S*34	None	5 mm UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2034T	Sensolog III	SSIR	S*34	None	VS-1A UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2036K	Dialog II	SSIC	S*36	VS-1	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	7.7
	2036T	Dialog II	SSIC	S*37	None	VS-1A UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2037B	Dialog II	SSIC	S*37	None	5 mm Bif UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2037K	Dialog II	SSIC	S*37	None	VS-1A UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2037L	Dialog II	SSIC	S*37	None	VS-1B UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	
	2037M	Dialog II	SSIC	S*37	None	5 mm UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2037S	Dialog II	SSIC	S*37	None	6 mm UNI	#2	PR	PR	99	85	C, Ab, Bb	
	2037T	Dialog II	SSIC	S*37	None	VS-1A UNI/BI	#2	PR	PR	99	85	C, Ab, Bb	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	2038K	Dialog II	SSIC	S*38	None	VS-1A UNI	#2	PR	PR	99	85	C, Ab, Bb		
	2038L	Dialog II	SSIC	S*38	None	VS-1B UNI/BI	#2	PR	PR	99	85	C, Ab, Bb		
	2038M	Dialog II	SSIC	S*38	None	5 mm UNI	#2	PR	PR	99	85	C, Ab, Bb		
	2038T	Dialog II	SSIC	S*38	None	VS-1A UNI/BI	#2	PR	PR	99	85	C, Ab, Bb		
	2040K	Multilog	SSIC	S*40	None	IS-1 UNI	#2	PR	PR	99	85	C, Ab, Bb		
	2040M/S	Multilog	SSIC	S*40	5/6	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	8.2/8.6	
	2040T	Multilog	SSIC	S*40	None	IS-1 UNI/BI	#2	PR	PR	99	85	C, Ab, Bb		
	2045K(Aa)	Sensorithm	SSIRO	S*45	None	VS-1A UNI	#2	PR	PR	99	85	C		
	2045M/S(Aa)	Sensorithm	SSIRO	S*45	None	5/6 mm UNI	#2	PR	PR	99	85	C		
	2045T(Aa)	Sensorithm	SSIRO	S*45	None	VS-1A UNI/BI	#2	PR	PR	99	85	C		
	2049K	Dialog II	SSIC	S*37	None	VS-1 UNI	#2	PR	PR	99	85	C, Ab, Bb		
	2049T	Dialog II	SSIC	S*37	None	VS-1 BI	#2	PR	PR	99	85	C, Ab, Bb		
	447		VVI	S*47	None	6 mm UNI	#2	70	70	100	85	D		
	619		VVI	S*19	None	6 mm UNI	#2	70	70	100	75	D		
	625		VAT	S*25	None	6 mm UNI	#2	55	48	100	75	D		
	627		VVI	S*27	None	6 mm UNI	#2	70	70	100	75	D		
	629		VVI	S*29	None	6 mm UNI	#2	70	70	100	75	D		
	637		VVI	S*37	None	6 mm UNI	#2	70	70	100	75	D		
	657		VVI	S*57	None	6 mm UNI	#2	70	70	100	75	D		
	658K	Prolog MP	SSIM	S*58	None	VS-1A UNI	#2	PR	PR	100	85	C, Ab, Bb		
	658M	Prolog MP	SSIM	S*58	None	5 mm UNI	#2	PR	PR	100	85	C, Ab, Bb		
	658T	Prolog MP	SSIM	S*58	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb		

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	659		VVI	S*59	None	6 mm UNI	#2	70	70	100	85	C, Ab, Bb	
	664		DDDM	S*64	6 mm UNI	6 mm UNI	#2	PR	PR	100	85	C, Bb	
	668		SSIM	S*68	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	668B		SSIM	S*68	None	5 mm Bif BI	#2	PR	PR	100	85	C, Ab, Bb	
	669		VVI	S*69	None	6 mm UNI	#2	70	70	100	85	C, Ab, Bb	
	674		DDDM	S*74	6 mm UNI	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	677		VVI	S*77	None	6 mm UNI	#2	70	70	100	75	C, Ab, Bb	
	678		SSIM	S*78	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	698	Prolog MP	SSIM	S*98	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	698L	Prolog MP	SSIM	S*98	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb	
	703K	Sensolog	SSIR	S*03	None	VS-1A UNI	#2	PR	PR	100	85	C, Ab, Bb	
	703S	Sensolog	SSIR	S*03	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	703T	Sensolog	SSIR	S*03	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb	
	704	Dialog AV	DDDC	S*04	6 mm UNI	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	718	Dialog	SSIC	S*18	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	718B	Dialog	SSIC	S*18	None	5 mm Bif BI	#2	PR	PR	100	85	C, Ab, Bb	
	718L	Dialog	SSIC	S*18	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb	
	728	Dialog S	SSIC	S*28	6	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	9
	728B	Dialog	SSIC	S*28	None	5 mm Bif BI	#2	PR	PR	100	85	C, Ab, Bb	
	728K	Dialog	SSIC	S*28	None	VS-1A UNI	#2	PR	PR	100	85	C, Ab, Bb	
	728S	Dialog	SSIC	S*28	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb	
	728T	Dialog	SSIC	S*28	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb	



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	748	Dialog	SSIC	S*48	6	Unipolar	#2	PR/PR		99	85	C, Ab, Bb	8.2	
	748B	Dialog	SSIC	S*48	None	5 mm Bif BI	#2	PR	PR	100	85	C, Ab, Bb		
	748K	Dialog	SSIC	S*48	None	VS-1A UNI	#2	PR	PR	100	85	C, Ab, Bb		
	748S	Dialog	SSIC	S*48	None	6 mm UNI	#2	PR	PR	100	85	C, Ab, Bb		
	748T	Dialog	SSIC	S*48	None	VS-1A BI	#2	PR	PR	100	85	C, Ab, Bb		
	876		VVI	*86	6	Unipolar		70/ 64		70/64			7	

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	1010T			VS-1/IS-1	BI	Small Fins	ENDO	UNK	RV
	1019K			IS-1	UNI	Fixed Screw	ENDO	UNK	RA/RV
	1019M			5 mm	UNI	Fixed Screw	ENDO	UNK	RA/RV
	1021K			IS-1	UNI	Tines	ENDO	UNK	RV
	1021M			5 mm	UNI	Tines	ENDO	UNK	RV
	1021S			6 mm	UNI	Tines	ENDO	UNK	RV
	1024K			IS-1	UNI	Fins	ENDO	UNK	RV
	1024M			5 mm	UNI	Fins	ENDO	UNK	RV
	1025K			VS-1/IS-1	UNI	Small Fins	UNK	UNK	RA/RV
	1025S			6 mm	UNI	Fins	ENDO	UNK	RV
	1027K			IS-1	UNI	Fins	ENDO	UNK	RA
	1027M			5 mm	UNI	Fins	ENDO	UNK	RA
	1050T			IS-1	BI	Fins	ENDO	UNK	RV
	1085K			IS-1	UNI	Fins	ENDO	UNK	RV
	283C			Threaded	UNI	Suture-on	EPI	UNK	RV
	2835C			6 mm	UNI	Suture-on	EPI	UNK	RV
	288C			Threaded	UNI	Fins	ENDO	UNK	RV
	288D			Threaded	UNI	Flange	ENDO	UNK	RV
	288E			Threaded	UNI	Fins	ENDO	UNK	RV
	288F			Threaded	UNI	Flange	ENDO	UNK	RV
	288J			Threaded	UNI	Flange	ENDO	UNK	RV
	288K			Threaded	UNI	Flange	ENDO	UNK	RV
	288L			Threaded	UNI	Flange	ENDO	UNK	RV
	288M			Threaded	UNI	Flange	ENDO	UNK	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	288SJ			6 mm	UNI	Flange	ENDO	UNK	RV
	288SK			6 mm	UNI	Flange	ENDO	UNK	RV
	288SL			6 mm	UNI	Flange	ENDO	UNK	RV
	288SM			6 mm	UNI	Flange	ENDO	UNK	RV
	288TF			Threaded	UNI	Flange	ENDO	UNK	RV
	288TJ			Threaded	UNI	Flange	ENDO	UNK	RV
	288TM			Threaded	UNI	Flange	ENDO	UNK	RV
	289M			Threaded	UNI	Flange	ENDO	UNK	RV
	289SM			6 mm	UNI	Flange	ENDO	UNK	RV
	401S			6 mm	UNI	Myo Screw	EPI	UNK	RV
	402K			VS-1/IS-1	UNI	Helix	ENDO	UNK	RA/RV
	402S			6 mm	UNI	Helix	ENDO	UNK	RA/RV
	404B			5 mm Bif	BI	Small Tines	ENDO	UNK	RV
	405L			3.2 mm LP	BI	Small Tines	ENDO	UNK	RV
	406L			3.2 mm LP	BI	Small Tines	ENDO	UNK	UNK
	407B			5 mm Bif	BI	Small Fins	ENDO	UNK	RV
	408L			3.2 mm LP	BI	Small Tines	ENDO	UNK	RV
	411S			6 mm	UNI	Flange	ENDO	UNK	RV
	412M			5 mm	UNI	Small Tines	ENDO	UNK	RV
	412S			6 mm	UNI	Small Tines	ENDO	UNK	RV
	414S			6 mm	UNI	Flange	ENDO	UNK	RV
	415S			6 mm	UNI	Small Tines	ENDO	UNK	RV
	416S			6 mm	UNI	J+Small Tines	ENDO	UNK	RA

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	418S			6 mm	UNI	J+Small Fins	ENDO	UNK	RA
	423M			5 mm	UNI	Small Tines	ENDO	UNK	RV
	423S			6 mm	UNI	Small Tines	ENDO	UNK	RV
	424K			VS-1/IS-1	UNI	Small Fins	ENDO	UNK	RV
	424M			5 mm	UNI	Small Fins	ENDO	UNK	RV
	424S			6 mm	UNI	Small Fins	ENDO	UNK	RV
	588A				UNI	Cylinder	ENDO	UNK	RV
	588C			Adaptor	UNI	Flange	ENDO	UNK	RV
	588D			Adaptor	UNI	Hemisphere	ENDO	UNK	RV
	588E			Adaptor	UNI	Hemisphere	ENDO	UNK	RV
	588J			Threaded	UNI	Flange	ENDO	UNK	RV
	588K			Threaded	UNI	Flange	ENDO	UNK	RV
	588L			Threaded	UNI	Blunt	ENDO	UNK	RV
	588M			Threaded	UNI	Flange	ENDO	UNK	RV
	588SA			6 mm	UNI	Fins	ENDO	UNK	RV
	588SC			Adaptor	UNI	Flange	ENDO	UNK	RV
	588SJ			6 mm	UNI	Wedge	ENDO	UNK	RV
	588SL			6 mm	UNI	Fins	ENDO	UNK	RV
	588SM			Adaptor	UNI	Flange	ENDO	UNK	RV
	881			5 mm	UNI	Fins	ENDO	UNK	RV



Notes

Sorin Biomedica C.R.M.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices		Physiocor 300	VDDC	SBP	5 mm UNI	5 mm UNI	#2	PR	PI+109	PR	PI+109	B	11.8	
		Micropacer1	SSIC	SPP		6 mm UNI	#2	PR	PI+100	80	73	C	12	
		Physiocor 400L	DDDC	SLP	IS-1 UNI	IS-1 UNI	#2	PR	PI+100	90	83	B	7.8	
		Orion 60/C	VVIC	BS		6 mm UNI	#2	PR	PI+100	80	73	B	11.5	
		Physiocor 400B	DDDC	SZP	IS-1 BI	IS-1 UNI	#2	PR	PI+100	90	83	B	7.8	
		Orion 30/A	VVIM	SOP		6 mm UNI	#2	PR	PI+100	80	73	B	13	
		Orion 50	SSIC	SRP		6 mm UNI	#2	PR	PI+100	80	73	B	12	
		Orion 30	VVIM	SIP		6 mm UNI	#2	PR	PI+100	80	73	B	14	
		Orion 40	VVIC	SCP		6 mm UNI	#2	PR	PI+100	80	73	B	14	
		Orion 60/A	VVIC	SAP		5 mm UNI	#2	PR	PI+100	80	73	B	11.5	
		Orion 60/B	VVIC	SGP		VS-1 BI	#2	PR	PI+100	80	73	B	11.5	
		Physiocor 400	DDDC	SDP	5 mm UNI	5 mm UNI	#2	PR	PI+100	90	83	B	7.8	
		Orion 35	VVIP	SHP		IS-1 UNI	#2	PR	PI+100	80	73	B	11	
		Orion 10	VVIM	SNA		6 mm UNI	#2	70	70	78	68	C	13	
		Orion 35/B	VVIP	SNP		IS-1 BI	#2	PR	PI+100	80	73	B	11	
		Orion 60	VVIC	SSP		VS-1 UNI	#2	PR	PI+100	80	73	B	11.5	
	DL 1		VVI			6 mm UNI	#2	72	65	83	76	B	9	
	ICV0011	Minior 100	SSIC	KS		IS-1 UNI	#2	PR	PI+100	80	73	B	6	
	ICV0012	Swing DR1	DDDR	ES	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0013	Swing VDR1	VDDR	LS	IS-1 UNI pace, UNI/BI sense	IS-1 UNI	#2	PR	PI+100	90	83	B	8	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	ICV0014	Newcor 50	DDDC	GS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	7.2	
	ICV0015	Swing 200	SSIR	FS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.5	
	ICV0016	Swing 200/C	SSIR	MS		6 mm UNI	#2	PR	PI+100	80	73	B	6.5	
	ICV0042	Minilit 100	VVI	US		IS-1 BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0043	Minilit 100	VVI	SS		IS-1 BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0044	Minior 100C	SSIC	RS		6 mm UNI	#2	PR	PI+100	80	73	B	6	
	ICV0045	Minior 36	SSIC	YS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0046	Minior 36	SSIC	YS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0047	Minior 36C	SSIC	SD		6 mm UNI	#2	PR	PI+100	80	73	B	6.2	
	ICV0048	Minior 36C	SSIC	SD		6 mm UNI	#2	PR	PI+100	80	73	B	6.2	
	ICV0049	Minior 65	SSIC	ZD		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0050	Minior 65	SSIC	ZS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.2	
	ICV0051	Minior 65C	SSIC	SE		6 mm UNI	#2	PR	PI+100	80	73	B	6.2	
	ICV0052	Minior 65C	SSIC	SE		6 mm UNI	#2	PR	PI+100	80	73	B	6.2	
	ICV0053	Theorema 100	SSIC	WS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	
	ICV0054	Theorema 100	SSIC	WS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	
	ICV0055	Theorema 100C	SSIC	SF		6 mm UNI	#2	PR	PI+100	80	73	B	6.6	
	ICV0056	Theorema 100C	SSIC	SF		6 mm UNI	#2	PR	PI+100	80	73	B	6.6	
	ICV0078	Minidual 50	DDDC	VS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6	

Sorin Biomedica C.R.M.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	ICV0079	MiniSwing DR1	DDDR	XS	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0080	MiniSwing VDR1	VDDR	SC	IS-1 UNI pace, UNI/BI sense	IS-1 UNI	#2	PR	PI+100	90	83	B	8.3	
	ICV0081	MiniSwing 200	SSIR	SB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	9.2	
	ICV0082	Living	DDDR	SA	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.7	
	ICV0082A	Living 1 Plus	DDDR	SI	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.7	
	ICV0095	Minidual 50	DDDC	VS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.0	
	ICV0221	MiniSwing DR1	DDDR	ES	IS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0222	MiniSwing VDR1	VDDR	SC	IS-1 UNI pace, UNI/BI sense	IS-1 UNI	#2	PR	PI+100	90	83	B	8.3	
	ICV0223	MiniSwing 200	SSIR	SB		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	9.2	
	ICV0224	MiniSwing 200C	SSIR	SG		6 mm UNI	#2	PR	PI+100	80	73	B	9.2	
	ICV0225	MiniSwing 200C	SSIR	SG		6 mm UNI	#2	PR	PI+100	80	73	B	9.2	
	ICV0226	Swing DR1 M	DDDR	SH	5 mm UNI	5 mm UNI	#2	PR	PI+100	90	83	B	6.5	
	ICV0227	Swing DR1 M	DDDR	SH	5 mm UNI	5 mm UNI	#2	PR	PI+100	90	83	B	6.5	
	ICV0328	Minidual 50S	DDDC	SI	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0329	Minidual 50S	DDDC	SI	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0341	MiniLiving S	VVIR	SN		SOR Unipolar	#2	PR	PI+100	80	73	B	7.3	
	ICV0343	Elect D	DDDC	AS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	
	ICV0344	Elect D	DDDR	AS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	ICV0345	MiniLiving D	DDDR	SM	SOR Unipolar	SOR Unipolar	#2	PR	PI+100	80	73	B	5.5	
	ICV0509	MiniSwing VDR4	VDDR	SR	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	8.3	
	ICV0510	MiniSwing VDR4	VDDR	SR	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	8.3	
	ICV0511	Thesis	SSIC	SP		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	9.2	
	ICV0512	Thesis	SSIC	SP		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	9.2	
	ICV0513	Thesis C	SSIC	SZ		6 mm UNI	#2	PR	PI+100	80	73	B	9.2	
	ICV0514	Thesis C	SSIC	SZ		6 mm UNI	#2	PR	PI+100	80	73	B	9.2	
	ICV0528	MiniSwing DR1M	DDDR	SH	5 mm UNI	5 mm UNI	#2	PR	PI+100	90	83	B	6.5	
	ICV0529	MiniSwing DR1M	DDDR	SH	5 mm UNI	5 mm UNI	#2	PR	PI+100	90	83	B	6.5	
	ICV0645	Concord	DDD	SJ	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0646	Concord	DDD	SJ	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	ICV0647	Elect DR	DDDR	ES	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	
	ICV0648	Elect DR	DDDR	ES	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.6	
	ICV0701	Elect XS plus	SSIC	ST		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	
	ICV0702	Elect XS plus	SSIC	ST		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	
	ICV0703	Elect XS plus C	SSIC	SX		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0704	Elect XS plus C	SSIC	SX		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0705	Elect XS	SSIC	SK		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	

Sorin Biomedica C.R.M.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	ICV0706	Elect XS	SSIC	SK		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	
	ICV0707	Elect XS C	SSIC	SU		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0708	Elect XS C	SSIC	SU		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0709	Diapason	SSIC	SY		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	
	ICV0710	Diapason	SSIC	SY		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	13.0	
	ICV0711	Diapason C	SSIC	SW		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0712	Diapason C	SSIC	SW		6 mm UNI	#2	PR	PI+100	80	73	B	13.0	
	ICV0738	Elect VDR	VDDR	FS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	8.2	
	ICV0739	Elect VDR	VDDR	FS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	8.2	
	ICV0740	Elect SR	DDDR	DS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	8.1	
	ICV0741	Elect SR	DDDR	DS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	80	73	B	8.1	
	ICV0811	Elect DR M	DDDR	HS	5 mm UNI	5 mm UNI	#2	PR	PI+100	80	73	B	6.6	
	ICV0812	Elect SR C	DDDR	IS	6 mm UNI/BI	6 mm UNI/BI	#2	PR	PI+100	80	73	B	8.1	
	ICV0813	Elect SR C	DDDR	IS	6 mm UNI/BI	6 mm UNI/BI	#2	PR	PI+100	80	73	B	8.1	
	LIT 111	LIT 111	VOO			6 mm UNI	#2	72	B			C	7	
	LIT 211	LIT 211	VVI			6 mm UNI	#2	72	66	83	77	C	5	
	LIT 212	LIT 212	VVI			Unipolar	#2	72	67	85	77	C	5	
	LIT 214H	LIT 214H	VVI	SHA		6 mm UNI	#2	72	65	90	82	C	6.5	
	LIT 216	LIT 216	VVI	SFA		6 mm UNI	#2	72	65	90	82	C	12	
	LIT 221	LIT 221	VVI	SMA		6 mm UNI	#2	72	65	86	78	C	> 12	
	LIT 222	LIT 222	VVI	SLA		6 mm UNI	#2	72	65	90	83	C	> 8	
	LIT 610	LIT 610	VVI	SEA		6 mm UNI	#2	72	66	85	78	C	6.5	
	LIT 610/A	LIT 610/A	VVI	SEA		6 mm UNI	#2	72	66	85	78	C	8	
	LIT 620	LIT 620	VVI	SGA		6 mm UNI	#2	72	66	85	78	C	9	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	LIT 620/A	LIT 620/A	VVI	SGA		6 mm UNI	#2	72	66	85	78	C	11	
	LIT 630	LIT 630	VVI	SDA		6 mm UNI	#2	72	66	85	78	C	13	
	LIT 630/A	LIT 630/A	VVI	SDA		6 mm UNI	#2	72	66	85	78	C	15	
	LIT 630/B	LIT 630/B	VVI	SDA		6 mm UNI	#2	72	66	85	78	C	15	
	LIT 635/A	LIT 635/A	VVI	SIA		IS-1 BI	#2	PR	PI+100	80	73	C	11.5	
	LIT 635/B	LIT 635/B	VVI	SOA		IS-1 BI	#2	PR	PI+100	80	73	C	11.5	
	LIT 650/A	LIT 650/A	VVI	SUA		6 mm UNI	#2	72	66	85	78	C	20	
	LIT 650/B	LIT 650/B	VVI	SRA		6 mm UNI	#2	72	66	85	78	C	15	
	P0001	Orion 36	VVIC	SXP		IS-1 UNI	#2	PR	PI+100	80	73	B	8.5	
	P0002	Orion 36/B	VVIC	SYP		IS-1 BI	#2	PR	PI+100	80	73	B	8.5	
	P0003	Orion 36	VVIC	SXP		IS-1 UNI	#2	PR	PI+100	80	73	B	8.5	
	P0004	Physiocor 400T	DDDC	AS	IS-1 BI	IS-1 UNI	#2	PR	PI+100	90	83	B	5	
	P0007	Swing 100/C	SSIR	CS		6 mm UNI	#2	PR	PI+100	80	73	B	7.2	
	P0040	Physiocor 400T	DDDC	DS	IS-1 UNI	IS-1 UNI	#2	PR	PI+100	90	83	B	5	
	P0045	Orion 65/C	SSIC			6 mm UNI	#2	PR	PI+100	80	73	B	8.5	
	P0048	Newcor 50	DDDC	GS	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100	90	83	B	7.2	
	P0059	Minior 100	SSIC	KS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6	
	P0069	Theorema 90/C	SSIC	NS		6 mm UNI	#2	PR	PI+100	80	73	B	7.3	
	P0069	Theorema 90	SSIC	STP		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	7.3	

Sorin Biomedica C.R.M.

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	P0074	Swing VDR1	VDDR	LS	IS-1 UNI pace, UNI/BI sense	IS-1 UNI	#2	PR	PI+100	90	83	B	8	
	P0076	Swing DR1	DDDR	ES	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100	90	83	B	6.5	
	P0077	Swing 200	SSIR	FS		IS-1 UNI/BI	#2	PR	PI+100	80	73	B	6.5	
	P0117	LIT 636/A	VVI	HS		IS-1 BI	#2	70				C	8.5	
	P0119	LIT 636/B	VVI	IS		IS-1 BI	#2	70				C	8.5	
	P0122	LIT 636/A	VVI	HS		IS-1 BI	#2	70				C	8.5	
	P0151	Swing 100	SSIR	SUP		IS-1 UNI	#2	PR	PI+100	80	73	B	7.2	
	P0155	Swing 100/B	SSIR	SVP		IS-1 BI	#2	PR	PI+100	80	73	B	7.2	
	P0159	Swing 100	SSIR	SUP		IS-1 UNI	#2	PR	PI+100	80	73	B	7.2	
	P0163	Orion 65	SSIC			IS-1 UNI	#2	PR	PI+100	80	73	B	8.5	
	P0164	Orion 65/B	SSIC			IS-1 BI	#2	PR	PI+100	80	73	B	8.5	
	P0166	Orion 65	SSIC			IS-1 UNI	#2	PR	PI+100	80	73	B	8.5	
	P0719	Swing 200/C	SSIR	MS		6 mm UNI	#2	PR	PI+100	80	73	B	6.5	
	P0721	Newcor 50 M	DDDC	PS	5 mm UNI/BI	5 mm UNI/BI	#2	PR	PI+100	90	83	B	7.2	
	P0722	Minior 100C	SSIC	RS		6 mm UNI	#2	PR	PI+100	80	73	B	6	

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	CMT 62			Sorin	UNI	Passive	UNK	UNK	UNK
	CMT 85			Sorin	UNI	Passive	UNK	UNK	UNK
	CST 62			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 100			Sorin	UNI	Passive	UNK	SIL	UNK
	CVT 100A			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 62			Sorin	UNI	Passive	UNK	SIL	UNK
	CVT 62/B			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 62/P			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 62/S			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 62A			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 70			UNK	QUAD		UNK	SIL	UNK
	CVT 85			Sorin	UNI	Passive	UNK	SIL	UNK
	CVT 85/P			Sorin	UNI	Passive	UNK	UNK	UNK
	CVT 85A			Sorin	UNI	Passive	UNK	UNK	UNK
	EPT 40			Sorin	UNI	1 mm epi needle	UNK	SIL	UNK
	ESA 35			Sorin	UNI	Suture	UNK	UNK	UNK
	ESA 55			Sorin	UNI	Suture	UNK	UNK	UNK
	S 100			IS-1	UNI	Passive	ENDO	SIL	RV
	S 100/4			IS-1	UNI	Passive	UNK	UNK	UNK
	S 100/4 B			IS-1	BI	Passive	UNK	UNK	UNK
	S 200			IS-1	UNI	Screw	UNK	SIL	UNK
229	S 200 A			IS-1	UNI	Screw	UNK	UNK	UNK
	S 200 AB			IS-1	BI	Screw	UNK	UNK	UNK

Sorin Biomedica C.R.M.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	S 200 B			IS-1	BI	Screw	UNK	UNK	UNK
	S 80			5 mm	UNI	Passive	ENDO	SIL	RV
	S 80 AV			IS-1	UNI	Passive	UNK	UNK	UNK
	S 80 J			IS-1	UNI	Passive	UNK	UNK	UNK
	S 80 JB			IS-1	BI	Passive	UNK	UNK	UNK
	S 80 T			IS-1	UNI	Passive	ENDO	SIL	RV
	S 80 T Bi			IS-1	BI	Passive	UNK	UNK	UNK
	S 80 TB			IS-1	BI	Passive	ENDO	SIL	RV
	S 80 THIN			5 mm	UNI	Passive	UNK	UNK	UNK
	S 80 UT			IS-1	UNI	Passive	UNK	UNK	UNK
	S 80 UTS			IS-1	UNI	Passive	UNK	UNK	UNK
	S 80 W			5 mm	UNI	Passive	UNK	SIL	UNK
	S 83 L			IS-1	A:BI V:UNI	Passive	UNK	UNK	UNK
	S 83 M			IS-1	A:BI V:UNI	Passive	UNK	UNK	UNK
	S 83 S			IS-1	A:BI V:UNI	Passive	UNK	UNK	UNK
	S 90			5 mm	UNI	Screw	UNK	SIL	RA



Notes

St. Jude Medical

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5056	Verity ADx XL SC	SSIC	VV	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	16.1	
	5130	Affinity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5130L	Affinity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5130R	Affinity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5131M/S	Affinity SR	SSIR	VT	None	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	8.6	
	5132L	Affirmity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5132R	Affirmity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5133M/S	Affirmity SR	SSIR	VT	None	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	8.6	
	5136	Integrity μ SR	SSIR	VT	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5138	Affirmity μ SR	SSIR	VT	None	VS-1 UNI/BI		PR	PI+100 ms	98.6	86.3	C	6.3	
	5142	Integrity SR	SSIR	VT	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5156	Verity ADx XL SR	SSIR	VV	None	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	16.1	
	5157M/S	Verity ADx XL SR	SSIR	VV	None	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	14.1	
	5160	Integrity ADx SR	SSIR	VV	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	9.0	
	5172	Identity SR	SSIR	VV	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5174	Fidelity SR	SSIR	VV	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	9.1	
	5180	Identity ADx SR	SSIR	VV	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	9.0	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5184	Fidelity ADx SR	SSIR	VV	None	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	9.0	
	5226	Entity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5226L	Entity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5226R	Entity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5230	Affinity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5230L	Affinity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5230R	Affinity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5231M/S	Affinity DC	DDDC	VT	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	6.3	
	5232L	Affirmity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5232R	Affirmity DC	DDDC	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5233M/S	Affirmity DC	DDDC	VT	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C		
	5256	Verity ADx XL DC	DDDC	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	12.3	
	5286	Identity ADx XL DC	DDDC	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	12.3	
	5326	Entity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5326L	Entity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5326R	Entity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5330	Affinity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5330L	Affinity DR	DDDR	VT	VS-1B UNI/BI	VS-1B BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5330R	Affinity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		

St. Jude Medical

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5331M/S	Affinity DR	DDDR	VT	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	6.1	
	5332L	Affirmity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5332R	Affirmity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5333M/S	Affirmity DR	DDDR	VT	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	6.8	
	5336	Integrity micro DR	DDDR	VT	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5338	Affirmity μ DR	DDDR	VT	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	6.1	
	5342	Integrity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5346	Integrity DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5348	Affirmity DR+	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	10.1	
	5356	Verity ADx XL DR	DDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	12.3	
	5357M/S	Verity ADx XL DR	DDDR	VV	5/6 mm UNI	5/6 mm UNI	#2	PR	PI+100 ms	98.6	86.3	C	11.1	
	5360	Integrity ADx DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	7.3	
	5366	Integrity ADx XL DR	DDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	12.3	
	5368	Fidelity DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	7.3	
	5370	Identity DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5372	Identity DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5374	Fidelity DR+	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	7.3	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5376	Identity XL DR	DDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5378	Fidelity XL DR	DDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	12.6	
	5380	Identity ADX DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5382	Victory AF DR	DDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	7.3	
	5384	Fidelity ADx DR	DDDR	VV	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C	6.8	
	5386	Identity ADX XLR DR	DDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C		
	5386	Identity ADX XLR DR	DDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C		
	5388	Fidelity ADx XL DR	DDDR	VV	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI +100 ms	98.6	86.3	C	12.3	
	5430	Affinity VDR	VDDR	VT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	13.6	
	5430i	Affinity VDR	VDDR	VT	Quad	Quad	#2	PR	PI +100 ms	98.6	86.3	C	13.6	
	5432	Affinity VDR	VDDR	VT	IS-1 Comp	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI +100 ms	98.6	86.3	C	13.6	
	5456	Verity ADx XL VDR	VDDR	VV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	15.1	
	5456i	Verity ADx XL VDR	VDDR	VV	QUAD	QUAD	#2	PR	PI+100 ms	98.6	86.3	C	15.1	

St. Jude Medical

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5480	Identity ADx VDR	VDDR	VV	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PI+100 ms	98.6	86.3	C	8.5	
	5610	Victory SR	SSIR	VW	None	IS-1 UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C	10.1	
	5612	Emprise SR	SSIR	VW	None	IS-1 UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C	10.1	
	5810	Victory DR	DDDR	VW	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C	7.2	
	5812	Emprise DR	DDDR	VW	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI +100 ms	98.6	86.3	C	7.2	
	5816	Victory XL DR	DDDR	VW	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI +100 ms	98.6	86.3	C	13.0	
	5818	Emprise XL DR	DDDR	VW	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI +100 ms	98.6	86.3	C	13.0	



CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage CRT devices	5508	Frontier 3x2	DDDRV	VT	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	None	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	QL	PR	PI+100	98.6	86.3	Gradual Magnet Rate change	
	5510	Frontier 3x2	DDDRV	VT	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	None	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	3.2 mm LP UNI/BI (IS-1 Compatible) Programmable	QL	PR	PI+100	98.6	86.3	Gradual Magnet Rate change	

St. Jude Medical

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	V-193	Atlas + VR	VVEV	SJM JX	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-193C	Atlas + VR	VVEV	SJM JX	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-194	Photon μ VR	VVEV	SJM JF	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-196	Epic + VR	VVEV	SJM JT	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-196T	Epic + VR	VVEV	SJM JT	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-197	Epic VR	VVEV	SJM JJ	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-199	Atlas VR	VVEV	SJM JL	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-230HV	Photon DR	VVED	V230HV	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-232	Photon μ DR	VVED	SJM JC	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-233	Epic DR	VVED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-235	Epic DR	VVED	SJM JJ	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-236	Epic + DR	VVED	SJM JT	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-239	Epic + DR	VVED	SJM JT	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-239T	Epic + DR	VVED	SJM JT	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-240	Atlas DR	VVED	SJM JC	IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-242	Atlas DR	VVED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V
	V-243	Atlas + DR	VVED		IS-1 BI	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V



CRT-D	Model		NBD Code	X-ray ID	Connectors				Detach Tool	HV Waveform	Elective Replacement Indicator	
	Number	Name			RA	RV	LV	HV				
high-voltage CRT devices	V-337	Epic HF	VVED		IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-338	Epic HF	VVED	SJM JY	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-340	Atlas + HF	VVED	SJM JX	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-343	Atlas Plus HF	VVED	SJM JX	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-344	Atlas Plus HF	VVED	SJM JX	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-352	Epic HF	VVED	SJM JY	IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-355	Epic II HF	VVED		IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	
	V-365	Atlas II HF	VVED		IS-1 BI	IS-1 BI	IS-1 Programmable	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.45 V	

St. Jude Medical

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	1642T	IsoFlex S		IS-1	BI	J+Tines	ENDO	SIL	RA
	1643K	IsoFlex S		IS-1	UNI	J+Tines	ENDO	SIL	RA
	1645K	IsoFlex S		IS-1	UNI	Passive	ENDO	SIL	RV
	1646T	IsoFlex S		IS-1	BI	Passive	ENDO	SIL	RV
	1688T	Tendril SDX		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV
	1688TC	Tendril SDX		IS-1	BI	Ext/Ret Screw	ENDO	SIL	RA/RV



HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	1505			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1506			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1507			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1510			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1511			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1512			N/A	DF-1 (1 pin)	N/A	Unipolar	Epi. Patch	Suture	Silicone
	1515TH	Endocure		IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	UNK
	1516H	Endocure		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	None	UNK
	1524TH	Endocure		IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	UNK
	1530			N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone
	1531			N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone
	1532			N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone
	1533			N/A	DF-1 (1 pin)	N/A	Unipolar	SubQ Patch	Suture	Silicone
	1535H	Endocure		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo SVC	None	UNK
	1536			IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RA	Ext/Ret Helix	Silicone
	1537			IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RA	Ext/Ret Helix	Silicone
	1538			IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RA	Ext/Ret Helix	Silicone
	1539	Riata SVC		N/A	DF-1 (1 pin)	N/A	Unipolar	Endo CS or SVC	Coronary Sinus	Silicone
	1558			IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	1559	TVL-ADX		IS-1	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	UNK
	1560	Riata I		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Passive	Silicone
	1561	Riata I		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Passive	Silicone
	1562	Riata I		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Passive	Silicone

St. Jude Medical

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	1570	Riata		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	1571	Riata		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	1572	Riata		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone
	1580	Riata		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	1581	Riata		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	1582	Riata		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Silicone
	1590	Riata I		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	1591	Riata I		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	1592	Riata I		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	7000	Riata ST		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	7001	Riata ST		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	7002	Riata ST		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Ext/Ret Helix	Silicone
	7010	Riata ST		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	7011	Riata ST		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Ext/Ret Helix	Silicone
	7012	Riata ST		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Ext/Ret Helix	Silicone
	7040	Riata ST		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	7041	Riata ST		IS-1 BI	DF-1 (2 pins)	TB	Quadripolar	Endo RV & SVC	Tines	Silicone
	7042	Riata ST		IS-1 BI	DF-1 (1 pin)	TB	Tripolar	Endo RV	Tines	Silicone
	7050	Riata ST		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	7051	Riata ST		IS-1 BI	DF-1 (2 pins)	IB	Tripolar	Endo RV & SVC	Tines	Silicone
	7052	Riata ST		IS-1 BI	DF-1 (1 pin)	IB	Bipolar	Endo RV	Tines	Silicone



Notes

Teletronics Pacing Systems [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	120		VVI	None	None	5 mm UNI	#6	74	67	74	67	C	
	1202	Meta MV	SSIR	TWI	None	VS-1A BI	#2	PR	PR	99	< 93/80	Xa, 6 ppm magnet	
	1204	Meta II	SSIR	tAW	None	VS-1B UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1204H	Meta II	SSIR	tVM	None	VS-1A UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1206	Meta III	SSIR	tQZ	None	VS-1A UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1206E	Meta III	SSIR	tLM	None	6 mm Linear UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1206M	Meta III	SSIR	tMM	None	5 mm Bif UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	120B		VVI	None	None	5 mm UNI	#6+SD	74	67	74	67	C	
	1210	Sentri	SSIR	TCW	None	VS-1B UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1210H	Sentri	SSIR	tWM	None	VS-1A UNI/BI	#2	PR	PR	100	82.5/80	Xa	
	1230	Meta DDD	DDDC/ VVIR	TMZ	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	> 85 (VOO)	< 78/63 (VOO)	C	
	1250	Meta DDDR	DDDR	TZV	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	> 85 (VOO)	< 78/63 (VOO)	C	
	1250H	Meta DDDR	DDDR	TQM	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PR	> 85 (VOO)	< 78/63 (VOO)	C	
	1254	Meta DDDR	DDDR	TBM	VS-1A UNI/BI	VS-1A BI	#2	PR	PR	> 85 (VOO)	< 78/63 (VOO)	C	
	1256	Meta DDDR	DDDR	tAL	VS-1A UNI/BI	VS-1A BI	#2	PR	PR	100	82.5/80	C	
	1256D	Meta DDDR	DDDR	tIL	VS-1B UNI/BI	VS-1B BI	#2	PR	PR	100	82.5/80	C	
	1256R	Meta DDDR	DDDR	tEL	VS-1 UNI/BI	VS-1 BI	#2	PR	PR	100	82.5/80	C	
	129		VOO	None	None	5 mm UNI	#6+SD	74	67			C	
	130BE		VVI	None	None	5 mm UNI	#6+SD	74	67	74	67	C	
	140B		VVI	None	None	5 mm UNI	#6+SD	74	67	74	67	C	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	147	Optima	VVI	TAI	None	5/6 mm UNI	#2	72	65	95	84	C		
	147B	Optima	VVI	TAI	None	5/6 mm UNI	#2	72	65	95	84	C		
	147S	Optima	VVI	TAI(Ha)	None	5/6 mm UNI	#2	72	65	95	84	C		
	149		VOO	None	None	5 mm UNI	#6+SD	74	67			C		
	150B		VVI	None	None	5 mm UNI	#6+SD	74	67	74	67	C		
	150L	Monolithic 9V	VVI	None	None	5 mm UNI	#6+SD	74	67	74	67	C		
	155	Optima MP	SSIM	TBP	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	155S	Optima MP	SSIM	TBP(Ha)	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	158	Optima MP II	SSIM	TKT	None	3.2 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	158B	Optima MP	SSIM	None	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	158C	Optima MP II	SSIM	TPV	None	VS-1B UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	159		VOO	None	None	5 mm UNI	#6+SD	74	67			C, 7-9 ppm		
	160B	Slimline	VVI	None	None	5 mm UNI	#2	72	65	72	65	C		
	160B II		VVI	None	None	5 mm UNI	#2	72	65	72	65	C		
	161	Slimline	VVI	None	None	5/6 mm UNI	#2	72	65	72	65	C		

Teletronics Pacing Systems [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	169		VOO	None	None	5 mm UNI	#2	72	65			C	
	171		VVIP	None	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	C, 10%	
	171E		VVIP	None	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	C, 10%	
	173		VVIP	None	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-10%	C, 10%	
	174	(S/N < All 30000 pre-Optima)	VVIP	TZP	None	5/6 mm UNI	#2	PR	PR-6%	95	84	C, 6% programmed, 10 ppm mag.	
	174S	Optima	VVIP	TZP	None	5/6 mm UNI	#2	PR	PR-6%	95	84	C, 6% programmed, 10 ppm mag.	
	174SQ		VVIP	None	None	5/6 mm UNI	#2	PR	Pr 5%	95	85	C, 5% programmed	
	181		VVI	None	None	5/6 mm UNI	#2	72	65	72	65	C	
	182	Slimline	VVI	None	None	5/6 mm UNI	#2	72	65	72	65	C	
	183	Slimline	VVI	None	None	5/6 mm UNI	#2	72	65	72	65	C	
	2251	Autima	DDD	None	5 mm UNI	5 mm UNI	#2	PR	PR-8%	Lb	Lb	Lb, 8%	
	2291	Autima II	DDD	None	5 mm UNI	5/6 mm UNI	#2	PR	PR-8%	90 (DOO)	80 (DOO)	D, 10 ppm magnet	
	247	Optima	VVI	TTI	None	5 mm Bif BI	#2	70	70	99	85/60	C, 14 ppm magnet, 20% PR, Gb	
	250B		VVI	None	None	5 mm Bif BI	#2	74	67	74	67	C	
	255	Optima MP	SSIM	TBD or TEP	None	5 mm Bif BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb	



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	258	Optima MP II	SSIM	TJT	None	3.2 mm BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	258C	Optima MP II	SSIM	TQV	None	VS-1A BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	271E	Slimline	VVIP	None	None	5 mm Bif BI	#2	PR	PR-10%	PR	PR-10%	C, 10%		
	274	Optima	VVIP	TWQ	None	5 mm Bif BI	#2	PR	PR-6%	95	84	C, 6% programmed, 10 ppm mag.		
	274SQ	(square can pre-Optima)	VVIP	None	None	5 mm Bif BI	#2	PR	PR-4%	95	85	C, 4% programmed		
	280	Slimline	VVI	None	None	5 mm Bif BI	#2	72	65	72	65	C		
	4151	PASAR	AATMP	None	5 mm Bif BI	None	#2			(Eb)	(Fb)			
	4171	PASAR	AADMP	A	5 mm Bif BI	None	#2			(Cb)	(Db)			
	4172	PASAR	AADMP	B	5 mm Bif BI	None	#2			(Cb)	(Db)			
	5241	Optima SPT	VVIC	THV	None	3.2 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5242	Optima SPT	VVIC	TIV	None	3.2 mm BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5243	Optima SPT	VVIC	TJV	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		

Teletronics Pacing Systems [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5281	Optima MPT	SSIC	THP	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5281A	Optima MPT II	SSIC	TWT	None	3.2 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5281B	Optima MPT II	SSIC	TVT	None	5/6 mm UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5281C	Optima MPT II	SSIC	TTV	None	VS-1B UNI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5281D	Optima MPT III	SSIC	tLZ	None	VS-1B UNI	#2	PR	PR	99	95/85	C, 4 ppm magnet, 20% PR, Gb		
	5281E	Optima MPT III	SSIC	tKW	None	6 mm UNI	#6	PR	PR	99	95/85	C, 4 ppm magnet, 20% PR, Gb		
	5282	Optima MPT	SSIC	TIP	None	5 mm Bif BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5282A	Optima MPT II	SSIC	TLT	None	3.2 mm BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		
	5282C	Optima MPT II	SSIC	TVV	None	VS-1A BI	#2	PR	PR	99	85/60	C, 14 ppm magnet, 20% PR, Gb		



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	5282D	Optima MPT III	SSIC	tKZ	None	VS-1A BI	#2	PR	PR	99	95/85	C, 4 ppm magnet, 20% PR, Gb		
	5282E	Optima MPT III	SSIC	tJW	None	6 mm In-line BI	#6	PR	PR	99	95/85	C, 4 ppm magnet, 20% PR, Gb		
	6230	Autima III	DDDC	TBQ	VS-1B UNI	VS-1B UNI	#2	PR	PR	95	90/84			
	6291	Aurora	DDDC	TET	5/6 mm UNI (Early versions 5 mm Atrial only)	5/6 mm UNI	#2	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	A, magnet 80.3, paced 63		
	6292	Aurora	DDDC	THT	VS-1B UNI/BI Sensing VS-1 B UNI Pacing	VS-1B UNI/BI Sensing VS-1 B UNI Pacing	#2	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	A, magnet 80.3, paced 63		
	8218	Reflex	SSIC	tCM	None	VS-1A UNI/BI	#6	PR	PR (SSI)	> 85 (SOO)	83/63 (SOO)	C		
	8220	Reflex	SSIC	tZZ	None	VS-1B UNI/BI	#2	PR	PR (SSI)	> 85 (SOO)	83/63 (SOO)	C		
	8220E	Reflex	SSIC	tTZ	None	6 mm Linear UNI/BI	#6	PR	PR (SSI)	> 85 (SOO)	83/63 (SOO)	C		
	8222	Reflex DDD	DDDC	tWZ	VS-1 UNI/BI	VS-1 UNI/BI	#2	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	C		
	8223E	Reflex DDD	DDDC	tVW	6 mm UNI	6 mm UNI	#6	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	C		
	8224	Reflex DDD	DDDC	tHM	VS-1A UNI/BI	VS-1A UNI/BI	#2	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	C		
	8230	Simplex	VVIC	tVZ	None	VS-1B UNI/BI	#2	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	C		

Telectronics Pacing Systems [St. Jude Medical]

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	8232	Simplex	VVIC	tEM	None	VS-1A UNI/BI	#6	PR	PR (VVI)	> 85 (VOO)	80/63 (VOO)	C		
	9221	Quadra	DDDC	tQT	VS-1B UNI/BI	VS-1B UNI/BI	#2	PR	PR	> 85 (VOO)	80/63 (VOO)	C		



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	030-168			5 mm	UNI	Suture	EPI	SIL	RA/RV
	030-169			5 mm	UNI	Suture	EPI	SIL	RA/RV
	030-170			5 mm	UNI	Suture	EPI	SIL	RA/RV
	030-171			5 mm	UNI	Suture	EPI	SIL	RA/RV
	030-172			5 mm	UNI	Suture	EPI	SIL	UNK
	030-173			5 mm	UNI	None	ENDO	SIL	RV
	030-174			5 mm	UNI	None	ENDO	SIL	RV
	030-175			5 mm	UNI	None	ENDO	SIL	RV
	030-176			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-177			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-178			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-179			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-180			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-181			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-185			5 mm	UNI	Tines	ENDO	SIL	RV
	030-188			5 mm	UNI	Tines	ENDO	SIL	RV
	030-191			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-192			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-194			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-197			5 mm	UNI		ENDO	SIL	RV
	030-198			5 mm	UNI	Wedge	ENDO	SIL	RV
251	030-199			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-200			5 mm	UNI		ENDO	SIL	RV

Teletronics Pacing Systems [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	030-202			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-203			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-204			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-205			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-206			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-207			5 mm Bif	BI	Wedge	ENDO	SIL	RV
	030-208			5 mm Bif	BI		ENDO	SIL	RV
	030-209			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-210			5 mm	UNI	Tines	ENDO	SIL	RV
	030-211			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-212			5 mm	UNI	Wedge	ENDO	UNK	RV
	030-213			5 mm	UNI	Wedge	ENDO	UNK	RV
	030-214			5 mm	UNI	Tines	ENDO	SIL	RV
	030-215			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-216			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-217			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-218				BI		UNK	UNK	UNK
	030-219				BI		UNK	UNK	UNK
	030-220			5 mm	UNI	Tines	ENDO	SIL	RV
	030-221			5 mm	UNI	Screw	EPI	SIL	RV
	030-222			5 mm	UNI	Screw	EPI	SIL	RA/RV
	030-223			5 mm	UNI	Screw	EPI	SIL	RA/RV
	030-224			5 mm	UNI	Wedge	ENDO	SIL	RV
	030-225			5 mm	UNI	Wedge	ENDO	SIL	RV





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	030-226			5 mm	UNI	Tines	ENDO	SIL	RV
	030-227			5 mm	UNI	Tines	ENDO	SIL	UNK
	030-233			5 mm	UNI	Tines	ENDO	SIL	RV
	030-234			5 mm	UNI	Tines	ENDO	SIL	RV
	030-236			5 mm	UNI	Tines	ENDO	SIL	RV
	030-237			5 mm	UNI	Tines	ENDO	SIL	RV
	030-239			5 mm	UNI	Tines	ENDO	POLY	RV
	030-240			5 mm	UNI	Tines	ENDO	POLY	RV
	030-241			5 mm	UNI	J+Tines	ENDO	POLY	RA
	030-242			5 mm	UNI	Tines	ENDO	POLY	RA
	030-243			5 mm	UNI	Tines	ENDO	POLY	RA
	030-244			5 mm Bif	BI	Tines	ENDO	80A	RV
	030-245			5 mm	UNI	Tines	ENDO	POLY	RV
	030-253			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-255			5 mm	UNI	Tines	ENDO	SIL	RA
	030-257			5 mm	UNI	Tines	ENDO	SIL	RV
	030-258			5 mm	UNI	Tines	ENDO	SIL	RV
	030-262			3.2 mm LP	BI	Ex./Ret. Helix	ENDO	UNK	RV
	030-264			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-265			5 mm Bif	BI	Tines	ENDO	80A	RA
	030-267			5 mm	UNI		UNK	UNK	UNK
253	030-269			3.2 mm LP	BI	Tines	ENDO	POLY	RA
	030-270			3.2 mm LP	BI	Tines	ENDO	POLY	RA

Teletronics Pacing Systems [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	030-271			3.2 mm LP	BI	Tines	ENDO	POLY	RV
	030-272			3.2 mm LP	UNI	Tines	ENDO	POLY	RV
	030-275			5 mm	UNI		UNK	UNK	RA
	030-276			5 mm	UNI	Tines	ENDO	POLY	RV
	030-281			3.2 mm LP#	UNI	Tines	ENDO	POLY	RV
	030-282			3.2 mm LP	BI	J+Tines	ENDO	POLY	RA
	030-283			3.2 mm LP	BI	Tines	ENDO	POLY	RA
	030-284			3.2 mm LP	BI	Tines	ENDO	POLY	RV
	030-285			5 mm Bif	BI	Tines	ENDO	SIL	RV
	030-300			5 mm	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-342			5 mm	UNI	Tines	ENDO	SIL	RV
	030-343			5 mm	UNI	Tines	ENDO	POLY	RV
	030-348			5 mm Bif	BI	Tines	ENDO	80A	RV
	030-356			5 mm	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-357			5 mm Bif	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-358			3.2 mm LP	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-362			3.2 mm LP	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-363			5 mm Bif	BI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-368			5 mm	UNI	Fins	ENDO	UNK	RV
	030-372			3.2 mm LP#	UNI		UNK	UNK	UNK
	030-373			3.2 mm LP#	UNI		UNK	UNK	UNK
	030-400			3.2 mm LP#	UNI	Tines	ENDO	SIL	RV
	030-401			3.2 mm LP#	UNI	Wedge	ENDO	SIL	RV
	030-402			3.2 mm LP#	UNI	Tines	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	030-403			3.2 mm LP#	UNI	J+Tines	ENDO	POLY	RA
	030-404			5 mm Bif	BI	Tines	ENDO	POLY	RV
	030-405			5 mm Bif	BI	J+Tines	ENDO	POLY	RA
	030-406			5 mm	UNI	Ex./Ret. Helix	ENDO	SIL	RA/RV
	030-407			3.2 mm LP#	UNI	Tines	ENDO	SIL	RV
	030-409			3.2 mm LP	BI	Tines	ENDO	SIL	RV
	030-412				BI	Tines	ENDO	SIL	UNK
	030-413				BI	Screw	ENDO	UNK	UNK
	030-436			3.2 mm LP#	UNI	Tines	ENDO	SIL	RV
	030-437			3.2 mm LP	BI	Tines	ENDO	POLY	RV
	030-446			3.2 mm LP	UNI	Tines	ENDO	SIL	RV
	030-574			5 mm	UNI	Screw	EPI	SIL	RV
	030-575			5 mm	UNI	Screw	EPI	SIL	RV
	033-159			VS-1	UNI	Tines	ENDO	POLY	RV
	033-202			VS-1	BI	Ex./Ret. Helix	ENDO	POLY	RV
	033-222			VS-1	UNI	Screw	EPI	SIL	RV
	033-223			VS-1	UNI	Screw	EPI	SIL	RV
	033-281			VS-1/5	UNI	Tines	ENDO	POLY	RV
	033-282			VS-1	BI	J+Tines	ENDO	POLY	RA
	033-284			VS-1	BI	Tines	ENDO	POLY	RV
	033-301			VS-1	BI	Fins	ENDO	POLY	RV
	033-303			VS-1	BI	Fins	ENDO	POLY	RV
	033-304			VS-1	BI	Fins	ENDO	POLY	RV

255

Teletronics Pacing Systems [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	033-377			VS-1	BI	Ex./Ret. Helix	ENDO	POLY	RV
	033-378			VS-1	BI	J+Retract. Screw	ENDO	POLY	RA
	033-400			VS-1	UNI	Tines	ENDO	SIL	RV
	033-402			IS-1	BI	None	ENDO	POLY	UNK
	033-403			VS-1/5	UNI	J+Tines	ENDO	POLY	RA
	033-436			VS-1/5	UNI	Tines	ENDO	SIL	RV
	033-441			VS-1/5	UNI	Tines	ENDO	POLY	RV
	033-442			VS-1/5	UNI	Tines	ENDO	SIL	RV
	033-443			VS-1	UNI	Tines	ENDO	POLY	RV
	033-444			VS-1	BI	Tines	ENDO	POLY	RV
	033-446			IS-1	BI	None	ENDO	POLY	UNK
	033-448			VS-1	BI	Tines	ENDO	POLY	RV
	033-452			VS-1	UNI	Suture	EPI	POLY	RA/RV
	033-454			VS-1	BI	Ex./Ret. Helix	ENDO	POLY	RV
	033-458			VS-1	BI	Fins	ENDO	SIL	RV
	033-462			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-462F			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-462M			IS-1	BI	J+Screw	ENDO	POLY	RA
	033-464			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-464F			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-464M			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-482			IS-1	BI	Tine Flange	ENDO	POLY	RV
	033-482F			IS-1	BI	Tine Flange	ENDO	POLY	RV
	033-484			IS-1	BI	Tine Flange	ENDO	POLY	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	033-484F			IS-1	BI	Tine Flange	ENDO	POLY	RV
	033-486			IS-1	BI	Tine Flange	ENDO	SIL	RV
	033-486F			IS-1	BI	Tine Flange	ENDO	SIL	RV
	033-487			IS-1	UNI	J+Tine Flange	ENDO	SIL	RA
	033-487F			IS-1	UNI	J+Tine Flange	ENDO	SIL	RA
	033-488			IS-1	BI	J+Tine Flange	ENDO	UNK	RA
	033-488F			IS-1	BI	J+Tine Flange	ENDO	SIL	RA
	033-489			IS-1	UNI	J+Tine Flange	ENDO	POLY	RA
	033-489F			IS-1	UNI	J+Tine Flange	ENDO	POLY	RA
	033-490			IS-1	BI	Tine Flange	ENDO	POLY	RA
	033-490F			IS-1	BI	Tine Flange	ENDO	POLY	RA
	033-492			IS-1	BI	Tine Flange	ENDO	POLY	RA
	033-492F			IS-1	BI	Tine Flange	ENDO	POLY	RA
	033-571			VS-1	UNI	Myo Screw	EPI	SIL	RA/RV
	033-572			VS-1	UNI	Myo Screw	EPI	SIL	RA/RV
	033-586			IS-1	BI	Myo Screw	EPI	SIL	RV
	033-588			IS-1	BI	Myo Screw	EPI	SIL	RV
	033-589			IS-1	UNI	J+Tines	ENDO	POLY	RA
	033-590			IS-1	BI	J+Tines	ENDO	POLY	RA
	033-591			VS-1	UNI	Tines	ENDO	POLY	RA
	033-592			VS-1	BI	Tines	ENDO	POLY	RA
257	033-654			IS-1	BI	Retract. Screw	ENDO	POLY	RA/RV
	033-757			VS-1	UNI	J+Tines	ENDO	POLY	RA

Teletronics Pacing Systems [St. Jude Medical]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	033-812			IS-1	BI	Retract. Screw	ENDO	POLY	RA
	033-856			VS-1	BI	J+Tines	ENDO	POLY	RA
	076-001			5 mm	UNI	Wedge	ENDO	SIL	RV
	076-002			5 mm	UNI	Wedge	ENDO	SIL	RV
	321-748			3.2 mm C	UNI	Passive	ENDO	SIL	RA
	321-748P			3.2 mm C	UNI	Passive	ENDO	SIL	RA
	321-749			3.2 mm C	BI	Passive	ENDO	SIL	RA
	322-745			6 mm	UNI	Passive	ENDO	85A	RA
	322-764			6 mm	UNI	J+Tines	ENDO	SIL	RA
	322-765			6 mm	UNI	Passive	ENDO	SIL	RA
	322-769			6 mm	UNI	Passive	ENDO	85A	RA
	323-556			6 mm	UNI	Self Cutting	UNK	UNK	UNK
	327-753			6L	BI	J+Tines	ENDO	POLY	RA
	328-745			5 mm	UNI	Passive	ENDO	POLY	RA
	328-746			5 mm Bif	BI	Passive	ENDO	POLY	RA
	328-747			5L	BI	Passive	ENDO	POLY	RA
	328-753			5 mm Bif	BI	Passive	ENDO	POLY	RA
	328-754			5L	BI	Passive	ENDO	POLY	RA
	328-756			5 mm	UNI	Passive	ENDO	POLY	RA
	329-201			3.2 mm C	BI	Screw	ENDO	POLY	RV
	329-701			3.2 mm C	BI	Screw	ENDO	POLY	RA
	329-745			3.2 mm C	UNI	Passive	UNK	UNK	UNK
	329-746			3.2 mm C	BI	Passive	UNK	UNK	UNK
	329-747			3.2 mm C	UNI		UNK	UNK	UNK



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	329-750			3.2 mm C	UNI		UNK	UNK	UNK
	329-752			3.2 mm C	UNI	Passive	UNK	UNK	UNK
	329-753			3.2 mm C	BI	Passive	ENDO	POLY	RA
	329-754			3.2 mm C	BI	J+Tines	ENDO	POLY	RA
	329-755A			3.2C/5/6	UNI	J+Tines	ENDO	POLY	RA
	330-158			VS-1/5	UNI	Fins	ENDO	POLY	RV
	330-201			VS-1	BI	Retract. Screw	ENDO	POLY	RV
	330-202			VS-1	BI	Retract. Screw	ENDO	UNK	RV
	330-258			VS-1	BI	Fins	ENDO	POLY	RV
	330-748			VS-1	UNI	Tines	ENDO	POLY	RA
	330-749			VS-1	UNI	Tines	ENDO	UNK	RV
	330-755			VS-1/5	UNI	J+Tines	ENDO	POLY	RA
	330-801			VS-1	BI	J+Retract. Screw	ENDO	POLY	RA
	330-848			VS-1	BI	Tines	ENDO	POLY	RA
	330-854			VS-1	BI	J+Tines	ENDO	POLY	RA
	SCT 200			5 mm Bif	BI		ENDO	SIL	RV
	UDT-230			5 mm Bif	BI	Tines	ENDO	POLY	RV
	UDT-302A			3.2 mm LP	UNI	Tines	ENDO	POLY	RV
	UDT-402			5 mm	UNI	Tines	ENDO	POLY	RV

Teletronics Pacing Systems [St. Jude Medical]

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number	Name		Sense/Pace	High Voltage						
high-voltage leads	040-022	EnGuard PFX		VS-1 BI	DF-1 (1 pin)	IB	BI	Endo RA	Tines	Polyurethane	
	040-036	EnGuard PFX		VS-1 BI	DF-1 (1 pin)	IB	BI	Endo RA	Tines	Polyurethane	
	040-038	EnGuard PFX		VS-1 BI	DF-1 (1 pin)	IB	BI	Endo RA	Tines	Polyurethane	
	040-068	EnGuard PFX		VS-1 BI	HV-1 (1 pin)	IB	BI	Endo RV	Tines	Polyurethane	
	040-069	EnGuard PFX		VS-1 BI	HV-1 (1 pin)	IB	BI	Endo RA	Tines	Polyurethane	
	040-105			N/A	HV-1 (1 pin)	N/A	UNI	Epi. Patch(Sm.)	Suture	Silicone	
	040-106			N/A	HV-1 (1 pin)	N/A	UNI	Epi. Patch(Med.)	Suture	Silicone	
	040-107			N/A	HV-1 (1 pin)	N/A	UNI	Epi. Patch(Lg.)	Suture	Silicone	
	040-112	Atrial DF		VS-1 BI	HV-1 (1 pin)	IB	BI	Endo RA	Tines	Polyurethane	
	040-113	Accufix DF		VS-1 BI	HV-1 (1 pin)	IB	BI	Endo RV	Ext/Ret Helix	Polyurethane	
	040-122	Accufix DF		VS-1 BI	HV-1 (1 pin)	IB	BI	Endo RV	Tines	Polyurethane	
	040-125			N/A	HV-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-126			N/A	HV-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-127			N/A	HV-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-128			N/A	DF-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-129			N/A	DF-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-130			N/A	DF-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone	
	040-136	Enguard PFX		IS-1	DF-1 (1 pin)	IB	BI	Endo RV	Tines	UNK	
	040-138	Enguard PFX		IS-1	DF-1 (1 pin)	IB	BI	Endo RV	Tines	UNK	
	040-501			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	Silicone	
	040-502			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	UNK	
	040-601			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	UNK	
	040-602			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	UNK	
	040-701			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	UNK	





HV	Model	Serial ID	Connectors	High Voltage	Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation	
	Number		Sense/Pace							

high-voltage leads

040-702			N/A	3.2 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	UNK	
---------	--	--	-----	----------------	-----	-----	------------	--------	-----	--

Vascor Medical Corp.

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	111-003			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	111-004			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	111-005			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-006			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-009			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	111-010			IS-1	UNI	Screw	ENDO	SIL	RA/RV
	111-011			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-012			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-013			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-014			IS-1	UNI	Screw	UNK	SIL	RA/RV
	111-016			IS-1	UNI	J+Fixed Screw	UNK	SIL	RA
	111-021			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	111-022			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	111-023			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	UNK
	111-024			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	UNK
	111-025			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	111-026			IS-1	UNI	Ext/Ret Screw	ENDO	SIL	RA/RV
	111-256			IS-1	BI	Passive	ENDO	SIL	RV
	121-017			IS-1	UNI	Passive	ENDO	SIL	RV
	121-018			IS-1	UNI	Passive	ENDO	SIL	RV
	121-019			IS-1	UNI	Passive	ENDO	SIL	RV
	121-020			IS-1	UNI	Passive	ENDO	SIL	RV
	121-021			IS-1	UNI	Passive	ENDO	POLY	RV
	121-022			IS-1	UNI	Passive	ENDO	POLY	RV





Notes

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	V-100	Cadence	VVEV	V-100	None	VS-1 BI	5 mm (2 ports)	SD & #4	Mono/Biphasic	Battery Voltage, 5.1 V
	V-100B	Cadence	VVEV	V-100	None	4.75 mm Bif	5 mm (2 ports)	SD & #4	Mono/Biphasic	Battery Voltage, 5.1 V
	V-100C	Cadence	VVEV	V-100	None	4.75 mm Bif	6.1 mm (2 ports)	SD & #4	Mono/Biphasic	Battery Voltage, 5.1 V
	V-100D	Cadence	VVEV	V-100	None	IS-1 BI	DF-1 (3 ports)	SD & #4	Mono/Biphasic	Battery Voltage, 5.1 V
	V-105	Cadet LT	VVEV	V-105	None	VS-1 BI	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage ≤ 2.55 V
	V-105AC	Cadet LT	VOEV	V-105	None	IS-1 BI	DF-1 (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-105B	Cadet LT	VVEV	V-105	None	4.75 mm Bif	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage ≤ 2.55 V
	V-105C	Cadet LT	VOEV	V-105	None	4.75 mm Bif	6.1 mm (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-105D	Cadet LT	VOEV	V-105	None	IS-1 BI	DF-1 (3 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-110	Cadence	VVEV	V-110	None	VS-1 BI	5 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-110B	Cadence	VVEV	V-110	None	4.75 mm Bif	5 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-110C	Cadence	VVEV	V-110	None	4.75 mm Bif	6.1 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-110D	Cadence	VVEV	V-110	None	IS-1 BI	DF-1 (3 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-110E	Cadence	VVEV	V-110	None	4.75 mm Bif	DF-1 (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-112	Cadence	VVEV	V-112	None	VS-1 BI	5 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-112B	Cadence	VVEV	V-112	None	4.75 mm Bif	5 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-112C	Cadence	VVEV	V-112	None	4.75 mm Bif	6.1 mm (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-112D	Cadence	VVEV	V-112	None	IS-1 BI	DF-1 (3 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-112E	Cadence	VVEV	V-112	None	4.75 mm Bif	DF-1 (2 ports)	SD & #2	Mono/Biphasic	Battery Voltage, 5.1 V
	V-115	Cadet	VVEV	V-115	None	VS-1 BI	5 mm (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-115AC	Cadet	VVEV	V-115	None	IS-1 BI	DF-1 (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-115B	Cadet	VVEV	V-115	None	4.75 mm Bif	5 mm (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-115C	Cadet	VVEV	V-115	None	4.75 mm Bif	6.1 mm (2 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V
	V-115D	Cadet	VVEV	V-115	None	IS-1 BI	DF-1 (3 ports)	SD	Mono/Biphasic	Battery Voltage, 2.55 V

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	V-135	Contour LT	VVEV	V-135	None	VS-1 BI	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.55 V
	V-135AC	Contour	VOEV	V-135	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-135B	Contour LT	VVEV	V-135	None	4.75 mm Bif	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.55 V
	V-135C	Contour LT	VVEV	V-135	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage $\leq$ 2.55 V
	V-135D	Contour	VOEV	V-135	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-145	Contour	VVEV	V-145	None	VS-1 BI	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-145AC	Contour	VVEV	V-145	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-145B	Contour	VVEV	V-145	None	4.75 mm Bif	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-145C	Contour	VVEV	V-145	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-145D	Contour	VVEV	V-145	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-175	Contour MD	VVEV	V-175	None	VS-1 BI	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-175AC	Contour MD	VVEV	V-175AC	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-175B	Contour MD	VVEV	V-175	None	4.75 mm Bif	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-175C	Contour MD	VVEV	V-175	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-175D	Contour MD	VVEV	V-175	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-180F	Angstrom II	VVEV	V-180	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-180HV3	Angstrom II	VVEV	V-180HV3	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-185	Contour II	VVEV	V-185	None	VS-1 BI	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-185AC	Contour II	VVEV	V-185AC	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-185B	Contour II	VVEV	V-185	None	4.75 mm Bif	5 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-185C	Contour II	VVEV	V-185	None	4.75 mm Bif	6.1 mm (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-185D	Contour II	VVEV	V-185	None	IS-1 BI	DF-1 (3 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
265	V-186F	Profile MD	VVEV	V-186	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage, 2.55 V

Ventritex, Inc. [St. Jude Medical]

ICD	Model		NBD Code	X-ray ID	Connectors			Detach Tool	HV Waveform	Elective Replacement Indicator
	Number	Name			RA	RV	HV			
high-voltage devices	V-186HV3	Profile MD	VVEV	V-186HV3	None	IS-1 BI	DF-1 (2 ports)	#2	Biphasic	Battery Voltage, 2.55 V
	V-190F	Angstrom MD	VVEV	V-190	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V
	V-190HV3	Angstrom MD	VVEV	V-190HV3	None	IS-1 BI	DF-1 (2 ports)	#2	Mono/Biphasic	Battery Voltage, 2.55 V

HV	Model		Serial ID	Connectors		Sensing Configuration	Lead Polarity	Placement	Fixation	Insulation
	Number	Name		Sense/Pace	High Voltage					
high-voltage leads	DP-3219			N/A	DF-1 (1 pin)	N/A	UNI	Epi. Patch	Suture	Silicone
	DP-3238			N/A	DF-1 (1 pin)	N/A	UNI	Epi. Patch	Suture	Silicone
	DP-5019			N/A	5 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	Silicone
	DP-5038			N/A	5 mm (1 pin)	N/A	UNI	Epi. Patch	Suture	Silicone
	RV01	TVL		IS-1 BI	DF-1 (1 pin)	IB	BI	Endo RV	Tines	Silicone
	RV02	TVL		IS-1 BI	DF-1 (1 pin)	IB	BI	Endo RV	Tines	Silicone
	RV03	TVL		IS-1	DF-1 (1 pin)	IB	BI	Endo RV	Tines	UNK
	RV06	TVL		IS-1	DF-1 (1 pin)	IB	BI	Endo RV	Tines	UNK
	RV07	TVL		IS-1	DF-1 (1 pin)	IB	BI	Endo RV	Tines	UNK
	RV-1101	TVL		IS-1 BI	DF-1 (1 pin)	IB	BI	Endo RV	Tines	Silicone
	SP01	SPL		IS-1 BI	DF-1 (2 pins)	IB	BI	Endo RV	Tines	Silicone
	SP02	SPL		IS-1 BI	DF-1 (2 pins)	IB	BI	Endo RV	Tines	Silicone
	SP03	SPL		IS-1 BI	DF-1 (2 pins)	IB	BI	Endo RV	Tines	Silicone
	SP04	SPL		IS-1 BI	DF-1 (2 pins)	IB	BI	Endo RV	Tines	Silicone
	SQ01	TVL		N/A	DF-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone
	SQ-701	TVL		N/A	DF-1 (1 pin)	N/A	UNI	SubQ Patch	Suture	Silicone
	SV01	TVL		N/A	DF-1 (1 pin)	N/A	UNI	Endo SVC	Passive	Silicone
	SV02	TVL		N/A	DF-1 (1 pin)	N/A	UNI	Endo SVC	Passive	Silicone
	SV03	TVL		N/A	DF-1 (1 pin)	N/A	UNI	Endo CS or SVC	Coronary Sinus	UNK
	SV-1101	TVL		N/A	DF-1 (1 pin)	N/A	UNI	Endo SVC	Passive	Silicone

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	101	Onyx	VVI	V101	None	5/6 mm UNI	#2	70	68	100	86	F, Magnet only, J	8.0 @ 5.0 V
	102	Geo 1 SSI	SSIC	VC	None	3.2 mm UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	11.8 @ 2.5 V
	104	Onyx	VVI	V104	None	3.2 mm LP BI	#2	70	68	100	86	F, Magnet only, J	8.0 @ 5.0 V
	105	Geo 1 SSI	SSIC	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95/86	A, F	11.8 @ 2.5 V
	108	Geo 1 SSI	SSIC	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	11.8 @ 2.5 V
	111	Ceryx-1	VVIC	V111	None	5/6 mm UNI	#2	PR	PI+100 ms	100	86	F	10.0 @ 5.0 V
	114	Ceryx-1	VVIC	V114	None	3.2 mm LP BI	#2	PR	PI+100 ms	100	86	F	10.0 @ 5.0 V
	115	Vita S	SSIC	VCK	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-20%	E	15.9 @ 2.5 V
	116	Vita S	SSIC	VCI	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR-10%	PR	PR-20%	E	15.9 @ 2.5 V
	121	Ceryx-1	VVIC	V121	None	5 mm UNI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V
	123	Ceryx-1	VVIC	V123	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V
	124	Ceryx-1	VVIC	V124	None	IS-1 BI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V
	126	Legacy II S	SSIC	VCB	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	7.9 @ 3.5 V
	128	Legacy II S	SSIC	VCA	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85	65	Ra	7.9 @ 3.5 V
	130	Vita	SSIC	VA	None	IS-1 UNI/BI	#2	PR	PI+20%	100 (Nb)	91/83	A, B	11.0 @ 3.8 V
	140	Vita	VVIC	VA	None	IS-1 UNI/BI	#2	PR	PI+20%	100 (Nb)	91/83	A, B	11.0 @ 3.8 V
	150	Legacy S	SSIC	VBJ	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V
	151	Legacy S	SSIC	VBK	None	5/6 mm UNI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	152	Legacy S	SSIC	VBL	None	5 mm Bif UNI/BI	#2	PR	PR-10%	PR	PR-20%	E	12.2 @ 2.5 V, 5.8 @ 5.0 V	
	201	Finesse	SSIC	V201	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	8.6 @ 5.0 V	
	202	Finesse	SSIC	V202	None	IS-1 BI	#2	PR	PI+100 ms	100	86	F	8.6 @ 5.0 V	
	203	Ultra Finesse	SSIC	V203	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	5.8 @ 2.5 V	
	204	Ultra Finesse	SSIC	V204	None	IS-1 BI	#2	PR	PI+100 ms	100	86	F	5.8 @ 2.5 V	
	205	Finesse Primo	VVIC	V205	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	8.6 @ 2.5 V	
	206	Finesse Primo	VVIC	V206	None	IS-1 BI	#2	PR	PI+100 ms	100	86	F	8.6 @ 2.5 V	
	220	Jade II	SSIC	VB	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	9.9 @ 2.5 V	
	220E	Jade II	SSI	VB	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95/86	A, F	9.9 @ 2.5 V	
	221	Jade II	SSIC	VB	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95/86	A, F	9.9 @ 2.5 V	
	230	Vita 2 SSI	SSIC	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	11.8 @ 2.5 V	
	232	Vita 2 SSI	SSIC	VC	None	3.2 mm UNI	#2	PR	PI+100 ms	100	95/86	A, F		
	235	Vita 2 SSI	SSIC	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95/86	A, F		
	310	Vita VVIR	VVIR	VB	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	9.9 @ 2.5 V	
	311	Ceryx-3	SSIC	V311	None	5/6 mm UNI	#2	PR	PI+100 ms	100	86	F	10.0 @ 5.0 V	
	314	Ceryx-3	SSIC	V314	None	3.2 mm LP BI	#2	PR	PI+100 ms	100	86	F	10.0 @ 5.0 V	
	315	Vita VVIR	VVIR	V315	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	9.9 @ 2.5 V	
	321	Ceryx-3	SSIC	V321	None	5 mm UNI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V	
	323	Ceryx-3	SSIC	V323	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V	
	324	Ceryx-3	SSIC	V324	None	3.2 mm LP BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	340	Jade 3 SSI	SSI(R)	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	11.8 @ 2.5 V
	342	Jade 3 SSI	SSI(R)	VC	None	3.2 mm UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	
	345	Jade 3 SSI	SSI(R)	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	
	400	Vitesse	VDDC	V400	None	IS-1 UNI Pacing UNI/BI IS-1 Sensing	#2	PR	PI+100 ms	100	95, 86	A, F	7.5 @ 4.0 V
	401	Onyx4	VVIC	V401	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	11.1 @ 5.0 V
	410	Vita VDD	VDDC	VB	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.9 @ 2.5 V
	415	Visa SR	SSI	VCH	None	5/6 mm UNI	#2	PR	65 (SSI)	85	65	Ra	8.2 @ 3.5 V
	416	Visa SR	SSI	VCG	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	8.2 @ 3.5 V
	425	Visa D	DDDC	VCF	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (SSI)	85	65	Ra	10.2 @ 2.5 V
	426	Visa D	DDDC	VCE	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	10.2 @ 2.5 V
	435	Visa DR	DDDC	VCE				PR	65 (SSI)	85	65	Ra	7.7 @ 3.5 V
	435	Visa DR	DDDR	VCD	5/6 mm UNI	5/6 mm UNI	#2	PR	65 (SSI)	85	65	Ra	10.1 @ 2.5 V
	435	Visa DR	SSI	VCE				PR	65 (SSI)	85	65	Ra	
	436	Visa DR	DDDR	VCC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	10.1 @ 2.5 V
	436	Visa DR	DDD	VCC				PR	65 (SSI)	85	65	Ra	7.7 @ 3.5 V
	436	Visa DR	SSIR	VCC				PR	65 (SSI)	85	65	Ra	
	436	Visa DR	SSI	VCC				PR	65 (SSI)	85	65	Ra	
	500	Topaz	SSIR	V500	None	3.2 mm LP (IS-1 Compatible) UNI/BI Sensing, UNI Pacing	#2	PR	PI+100 ms	100	95, 86	A, F	8.0 @ 4.0 V
	501	Rhythmyx	VVIR	V501	None	5 mm UNI	#2	PR	PI+100 ms	100	86	F	6.7 @ 5.0 V

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	503	Rhythmyx	VVIR	V503	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	6.7 @ 5.0 V	
	505	Rhythmyx II	VVIR	V505	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	9.0 @ 5.3 V	
	515	Topaz	SSIR	V515	None	IS-1 UNI	#2	PR	PI+100 ms	100	86	F	9.0 @ 5.3 V	
	517	Topaz	SSIR	V517	None	5 mm UNI	#2	PR	PI+100 ms	100	86	F	9.0 @ 5.3 V	
	519	Topaz	SSIR	V519	None	6 mm UNI	#2	PR	PI+100 ms	100	86	F	9.0 @ 5.3 V	
	520	Topaz II	SSIR	VB	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.9 @ 2.5 V	
	521	Topaz II	SSIR	VB	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	9.9 @ 2.5 V	
	526	Legacy II SR	SSIR	VBY	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	9.9 @ 2.5 V	
	528	Legacy II SR	SSIR	VBW	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85	65	Ra	9.9 @ 2.0 V	
	530	Vita II SSIR	SSIR	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V	
	532	Vita II SSIR	SSIR	VC	None	3.2 mm UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V	
	535	Vita II SSIR	SSIR	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V	
	540	Topaz III SSIR	SSIR	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V	
	542	Topaz III SSIR	SSIR	VC	None	3.2 mm UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F		
	545	Topaz III SSIR	SSIR	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F		
	550	Legacy SR	SSIR	VBA	None	IS-1 UNI/BI	#2	PR	65 (SSI)	85	65	Pb	11.2 @ 2.5 V	
	551	Legacy SR	SSIR	VBB	None	5/6 mm UNI	#2	PR	65 (SSI)	85	65	Pb	11.2 @ 2.5 V	
	552	Legacy SR	SSIR	VBC	None	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Pb	11.2 @ 2.5 V	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	560	Clarity SSIR	SSIR	VC	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V
	562	Clarity SSIR	SSIR	VC	None	3.2 mm UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V
	565	Clarity SSIR	SSIR	VC	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V
	600	Saphir	VDDR	V600	IS-1 UNI Pacing IS-1 UNI/BI Sensing	IS-1 UNI Pacing IS-1 UNI/BI Sensing	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	9.5 @ 2.5 V
	611	Ceryx-6	SSIC	V611	None	5/6 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	10.0 @ 5.0 V
	614	Ceryx-6	SSIC	V614	None	3.2 mm LP BI	#2	PR	PI+100 ms	100	95, 86	A, F	10.0 @ 5.0 V
	620	Saphir II	VDDR	VB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	9.9 @ 2.5 V
	621	Ceryx-6	SSIC	V621	None	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	11.1 @ 5.0 V
	623	Ceryx-6	SSIC	V623	None	IS-1 UNI	#2	PR	PI+100 ms	100	95, 86	A, F	11.1 @ 5.0 V
	624	Ceryx-6	SSIC	V624	None	IS-1 BI	#2	PR	PI+100 ms	100	95, 86	A, F	11.1 @ 5.0 V
	630	Vita II VDD	VDDC	VC	IS-1 BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	9.7 @ 2.5 V
	640	Saphir III VDDR	VDDR	VC	IS-1 BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	9.7 @ 2.5 V
	700	Ruby	DDDC	V700	IS-1 UNI Pacing IS-1 UNI/BI Sensing	IS-1 UNI Pacing IS-1 UNI/BI Sensing	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	9.0 @ 4.0 V
	701	Harmony	DDDC	V701	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms (VVI)	100	86	F	8.0 @ 2.5 V
	703	Harmony	DDDC	V703	IS-1 UNI	IS-1 UNI	#2	PR	PI+100 ms (VVI)	100	86	F	8.0 @ 2.5 V
	704	Harmony II	DDDC	V704	IS-1 UNI Pacing IS-1 UNI/BI Sensing	IS-1 UNI Pacing IS-1 UNI/BI Sensing	#2	PR	PI+100 ms (VVI)	100	86	F	7.3 @ 2.7 V
	705	Harmony II	DDDC	V705	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms (VVI)	100	86	F	7.3 @ 2.7 V

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	707	Ruby	DDDC	V707	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	9.0 @ 4.0 V	
	710	Vita DDD	DDDC	VB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	8.2 @ 2.5 V	
	712	Geo I DDD	DDDC	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	715	Geo I DDD	DDDC	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	720	Ruby II	DDDC	VB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.2 @ 2.5 V	
	720E	Ruby II	DDD				#2	PR	PI+100 ms	100	95, 86	A, F	8.2 @ 2.5 V	
	724	Geo I DDD	DDDC	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95	A, F	8.1 @ 2.5 V	
	726	Legacy II D	DDDC	VBU	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (SSI)	85	65	Ra	10.2 @ 2.5 V	
	728	Legacy II D	DDDC	VBT	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (SSI)	85	65	Ra	10.2 @ 2.5 V	
	730	Vita II DDD	DDDC	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	732	Vita II DDD	DDDC	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	735	Vita II DDD	DDDC	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	740	Ruby III DDD	DDDC	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	742	Ruby III DDD	DDDC	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	745	Ruby III DDD	DDDC	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V	
	750	Legacy D	DDDC	VBM	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85	65	Ra	11.8 @ 2.5 V, 7.2 @ 4.0 V	
	751	Legacy D	DDDC	VBN	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85	65	Ra	11.8 @ 2.5 V, 7.2 @ 4.0 V	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	800	Diamond	DDDR	V800	IS-1 UNI Pacing IS-1 UNI/BI Sensing	IS-1 UNI Pacing IS-1 UNI/BI Sensing	#2	PR	PI+100 ms	100	95, 86	A, F	7.0 @ 4.0 V	
	801	Diamond	DDDR	V801	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	7.0 @ 4.0 V	
	810	Vita DDDR	DDDR	VB	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	8.2 @ 2.5 V	
	820	Diamond II	DDDR	VD	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	8.2 @ 2.5 V	
	822E	Diamond II	DDDR	VD	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms (VVI)	100	95, 86	A, F	8.2 @ 2.5 V	
	826	Legacy II DR	DDDR	VBR	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	65 (VVI)	85	65	Ra	10.1 @ 2.5 V	
	828	Legacy II DR	DDDR	VBP	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85	65	Ra	10.1 @ 2.5 V	
	830	Vita II DDDR	DDDR	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	832	Vita II DDDR	DDDR	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	835	Vita II DDDR	DDDR	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	840	Diamond III	DDDR	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	842	Diamond III	DDDR	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	845	Diamond III	DDDR	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	7.3 @ 2.5 V	
	850	Legacy DR	DDDR	VBF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	65 (VVI)	85	65	Ra	7.0 @ 2.5 V	
	851	Legacy DR	DDDR	VBG	5 mm UNI	5 mm UNI	#2	PR	65 (VVI)	85	65	Ra	7.0 @ 2.5 V	

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	852	Legacy DR	DDDR	VBH	3.2 mm LP BI (IS-1 Compatible) BI(Pace), UNI/BI(Sense)	3.2 mm LP BI (IS-1 Compatible) BI(Pace), UNI/BI(Sense)	#2	PR	65 (VVI)	85	65	Ra	7.0 @ 2.5 V
	860	Clarity DDDR	DDDR	VC	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V
	862	Clarity DDDR	DDDR	VC	3.2 mm LP UNI/BI (IS-1 Compatible)	3.2 mm LP UNI/BI (IS-1 Compatible)	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V
	865	Clarity DDDR	DDDR	VC	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V
	900	Selection 900(E) AF1, AF2	DDDR	VB/VE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.3 @ 2.5 V
	900E	Selection 900(E) AF1, AF2											
	902	Selection Afm	DDDR	VE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V
	910	DiagnoseAF	DDDR	VE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.3 @ 2.5 V
	911	Quintech TX	VVIR	V911	None	5/6 mm UNI	#2	PR	PI+100 ms	100	86	F	6.6 @ 5.0 V
	915	Quintech TX	VVIR	V915	None	5/6 mm UNI	#2	PR	PI+100 ms	100	86	F	6.4 @ 5.0 V
	919	Model 919	VVIR	V919	None	5 mm UNI	#2	PR	PI+100 ms	100	86	F	5.3 @ 5.0 V
	920	PreventAF	DDDR	VE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.3 @ 2.5 V
	921	Quintech DPG	VVIC	V921	None	5/6 mm UNI	#2	PR	PI+100 ms	100	86	F	6.4 @ 5.0 V

IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL		
low-voltage devices	931	Quintech DDD	DDDC	V931	5 mm UNI	5 mm UNI	#2	PR	PI+100 ms	100	86	F	
	9000	Selection 9000 AF3	DDDR	VE	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	7.4 @ 2.5 V
	C10A1	C10S	SSI	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	12.8 @ 2.5 V
	C10A2	C10S	SSI	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	12.8 @ 2.5 V
	C10A3	C10S	SSI	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	13.2 @ 2.5 V
	C20A1	C20SR	SSIR		None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	11.6 @ 2.5 V
	C20A1	C20SR	SSIR	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	12.3 @ 2.5 V
	C20A2	C20SR	SSIR	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	12.3 @ 2.5 V
	C20A3	C20SR	SSIR	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	13.0 @ 2.5 V
	C2331	Vitalith	AAI	None	Vitatron UNI	None	Screw	70	66	95	89	C, J	
	C50A1	C50D	DDD	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.1 @ 2.5 V
	C50A2	C50D	DDD	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.1 @ 2.5 V
	C50A3	C50D	DDD	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.5 @ 2.5 V
	C5122		VVI	VC5122	None	5/6 mm UNI	#2	70	70	100	90	F	7.5 @ 5.0 V
	C60A1	C60DR	DDDR		IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.1 @ 2.5 V
	C60A1	C60DR	DDDR	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.8 @ 2.5 V
	C60A2	C60DR	DDDR	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	8.8 @ 2.5 V
	C60A3	C60DR	DDDR	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.4 @ 2.5 V
	T20A1	T20SR	SSIR		None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	13.0 @ 2.5 V
	T20A1	T20SR	SSIR	VF	None	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	13.0 @ 2.5 V
	T60A	T60DR	DDDR		IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.4 @ 2.5 V



IPG	Model		NBG Code	X-ray/ Serial ID	Sense/Pace Connectors		Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity	
	Number	Name			RA	RV		BOL	ERI/EOL	BOL	ERI/EOL			
low-voltage devices	T60A1	T60DR	DDDR	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.4 @ 2.5 V	
	T70A1	T70DR	DDDR	VF	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95, 86	A, F	9.4 @ 2.5 V	

CRT-P	Model		NBG Code	X-ray ID	Sense/Pace Connectors				Detach Tool	Non MAG Rate		MAG Rate		ERI/EOL Behavior	Longevity
	Number	Name			RA	LA	RV	LV		BOL	ERI/EOL	BOL	ERI/EOL		

CRT8000	CRT8000	DDDRV	VE	IS-1 UNI/BI	None	IS-1 UNI/BI	IS-1 UNI/BI	#2	PR	PI+100 ms	100	95/86	A, F	6.6 @ 2.5 V
---------	---------	-------	----	-------------	------	-------------	-------------	----	----	-----------	-----	-------	------	-------------

low-voltage CRT devices





LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	F 55	LOE	55	5 mm	UNI	Flange	ENDO	UNK	RV
	F 56	LOE	56	5 mm	UNI	Flange	ENDO	UNK	RV
	F 59	LOE	59	5 mm	UNI	Flange	ENDO	UNK	RV
	FP 57	FPE	57	5 mm	UNI	Flange	ENDO	UNK	RV
	FP 58	FPE	58	5 mm	UNI	Flange	ENDO	UNK	RV
	FP 59	FPE	59	5 mm	UNI	Flange	ENDO	UNK	RV
	ICF 09B	Crystalline Active Fixation	VMR	IS-1	BI	Ext./Ret Screw	ENDO	SIL	RA/RV
	ICL 08	Crystalline	VMM	IS-1	UNI	Tines	ENDO	Silicone MED 4719	RA/RV
	ICL 08B	Crystalline	VMN	IS-1	BI	Tines	ENDO	Silicone MED 4720	RA/RV
	ICL 08JB	Crystalline	VMP	IS-1	BI	J+Tines	ENDO	Silicone MED 4721	RA
	ICM 09	Crystalline	VMS	IS-1	UNI	Tines	ENDO	POLY	RV
	ICM 09B	Crystalline Passive Fixation	VMT	IS-1	BI	Tines	ENDO	55D	RV
	ICM 09JB	Crystalline Passive Fixation	VMU	IS-1	BI	J+Tines	ENDO	55D	RA
	ICQ 09B	Crystalline Active Fixation	LFM	IS-1	BI	Ext./Ret Screw	ENDO	55D	RA/RV
	IHP 09B	Impulse II	VNG	IS-1	BI	Tines	ENDO	SIL	RV
	IHP 09JB	Impulse II	VNH	IS-1	BI	J+Tines	ENDO	SIL	RA
	IMC 49	Excellence	MG	IS-1	UNI	Tines	ENDO	UNK	RV
	IMC 49B	Excellence	MJ	IS-1	BI	Tines	ENDO	UNK	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	IMC 49J	Excellence	MH	IS-1	UNI	J+Tines	ENDO	UNK	RA
	IMD 19	Excellence+	MM or VLE	IS-1	UNI	Tines	ENDO	UNK	RV
	IMD 19B	Excellence+	MN or VLF	IS-1	BI	Tines	ENDO	UNK	RV
	IMD 19JB	Excellence+	MO or VLG	IS-1	BI	J+Tines	ENDO	UNK	RA
	IMD 49	Excellence+	VLE	IS-1	UNI	Tines	ENDO	UNK	RV
	IMD 49B	Excellence+	VLF	IS-1	BI	Tines	ENDO	55D	RV
	IMD 49JB	Excellence+	VLG	IS-1	BI	J+Tines	ENDO	55D	RA
	IME 49	Excellence S+	VLA	IS-1	UNI	Tines	ENDO	SIL	RV
	IME 49B	Excellence S+	VLB	IS-1	BI	Tines	ENDO	SIL	RV
	IME 49JB	Excellence S+	VLC	IS-1	BI	J+Tines	ENDO	SIL	RA
	IMG 49	Impulse	VLY	IS-1	UNI	Tines	ENDO	SIL	RV
	IMG 49B	Impulse	VLU	IS-1	BI	Tines	ENDO	SIL	RV
	IMG 49JB	Impulse	VLW	IS-1	BI	J+Tines	ENDO	SIL	RA
	IMK 49B	Excellence PS+	PJA	IS-1	BI	Tines	ENDO	55D	RV
	IMK 49JB	Excellence PS+	PJB	IS-1	BI	J+Tines	ENDO	55D	RA
	IML 49B	Excellence SS+	VMK	IS-1	BI	Tines	ENDO	SIL	RV
	IML 49JB	Excellence SS+	VML	IS-1	BI	J+Tines	ENDO	SIL	RA
	IMP 15Q	Brilliant	VD	IS-1	BI	Tines	ENDO	SIL	RV
	IMP 16Q	Brilliant	VD	IS-1	BI	Tines	ENDO	SIL	RV
	IMP 17Q	Brilliant	VD	IS-1	BI	Tines	ENDO	SIL	RV
	IMP 18Q	Brilliant	VD	IS-1	BI	Tines	ENDO	SIL	RV
	IMR 15Q	Brilliant+	VE	IS-1	BI	Tines	ENDO	SIL	RV
	IMR 16Q	Brilliant+	VE	IS-1	BI	Tines	ENDO	SIL	RV
	IMR 17Q	Brilliant+	VE	IS-1	BI	Tines	ENDO	SIL	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	IMR 18Q	Brilliant+	VE	IS-1	BI	Tines	ENDO	SIL	RV
	IMS 19B	Pirouet	ML or VLK	IS-1	BI	Tines	ENDO	SIL	RA/RV
	IMS 49	Pirouet	MA or VLH	IS-1	UNI	Ext./Ret Screw	ENDO	80A	RA/RV
	IMS 49B	Pirouet	ML or VLK	IS-1	BI	Ext./Ret Screw	ENDO	80A	RA/RV
	IMS 49J	Pirouet	MB or VLJ	IS-1	UNI	J+Screw in	ENDO	80A	RA
	IMS 49JB	Pirouet	VLM	IS-1	BI	J+Screw in	ENDO	80A	RA
	IMT 49	Silhouet	MC or VLL	IS-1	UNI	Tines	ENDO	UNK	RV
	IMT 49J	Silhouet	MD	IS-1	UNI	J+Tines	ENDO	UNK	RA
	IMT 49JB	Silhouet	MK	IS-1	BI	J+Tines	ENDO	UNK	RA
	IMU 49	Pirouet+	VLV	IS-1	UNI	Ext./Ret Screw	ENDO	80A	RA/RV
	IMU 49B	Pirouet+	VLW	IS-1	BI	Ext./Ret Screw	ENDO	80A	RA/RV
	IMU 49JB	Pirouet+	VLX	IS-1	BI	J+Screw in	ENDO	80A	RA
	IMV 49B	Silhouet S	VLD	IS-1	BI	Tines	ENDO	UNK	RV
	IMW 14Q	Brilliant S+	VF	IS-1	BIP	Tines	ENDO	UNK	VDD
	IMW 15Q	Brilliant S+	VF	IS-1	BIP	Tines	ENDO	UNK	VDD
	IMW 16Q	Brilliant S+	VF	IS-1	BIP	Tines	ENDO	UNK	VDD
	IMW 17Q	Brilliant S+	VF	IS-1	BIP	Tines	ENDO	UNK	VDD
	IMW 18Q	Brilliant S+	VF	IS-1	BIP	Tines	ENDO	UNK	VDD
	IMX 49	Pirouet S+	VLP	IS-1	UNI	Ext./Ret Screw	ENDO	SIL	RA/RV
	IMX 49B	Pirouet S+	VLN	IS-1	BI	Ext./Ret Screw	ENDO	SIL	RA/RV
	IMX 49JB	Pirouet S+	VLR	IS-1	BI	Ext./Ret Screw	ENDO	SIL	RA/RV
	IRP 13	Slimtine S	RA	IS-1	UNI	Tines	ENDO	UNK	RV
	IRP 13B	Slimtine S	RB	IS-1	BI	Tines	ENDO	UNK	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	IRP 13JB	Slimtine S	RC	IS-1	BI	J+Tines	ENDO	UNK	RA
	IRP 19	Slimtine S	RA	IS-1	UNI	Tines	ENDO	UNK	RV
	IRP 19B	Slimtine S	RB	IS-1	BI	Tines	ENDO	UNK	RV
	IRP 19JB	Slimtine S	RC	IS-1	BI	J+Tines	ENDO	UNK	RA
	ISP 13	Slimtine	SP	IS-1	UNI	Tines	ENDO	UNK	RV
	ISP 19	Slimtine	SP	IS-1	UNI	Tines	ENDO	UNK	RV
	ITP 13	Slimtine	TC	IS-1	UNI	Tines	ENDO	UNK	RV
	ITP 19	Slimtine	TC	IS-1	UNI	Tines	ENDO	UNK	RV
	ITP 53	Facet	PA	IS-1	UNI	Tines	ENDO	UNK	RV
	ITP 53B	Facet	PC	IS-1	BI	Tines	ENDO	UNK	RV
	ITP 59	Facet	PA	IS-1	UNI	Tines	ENDO	UNK	RV
	ITP 59B	Facet	PC	IS-1	BI	Tines	ENDO	UNK	RV
	LV32	Left Vent.over-the-wire-lead	VDB	IS-1	UNI	Preformed	ENDO	55D	CV
	MIP 2000			Vitatron	UNI	Barbed	UNK	SIL	UNK
	MIP 2007			Vitatron	UNI	Barbed	UNK	SIL	UNK
	MIP 2125S			Vitatron	UNI	Suture	EPI	SIL	UNK
	MIP 2140			Vitatron	UNI	Flange	UNK	SIL	UNK
	MIP 2145			Vitatron	UNI	None	UNK	SIL	UNK
	MIP 2147			Vitatron	UNI	Flange	UNK	SIL	UNK
	MIP 2147LOE			Vitatron	UNI	Flange	UNK	SIL	UNK
	MS 49	Pirouet		5 mm	UNI	Screw in	ENDO	UNK	RV
	MS 49J	Pirouet		5 mm	UNI	J+Screw in	ENDO	UNK	RA
	S 25	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 26	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV



LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	S 29	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 35	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 36	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 39	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 55	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 56	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 59	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 65	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 66	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 69	Helifix		5 mm	UNI	Flange	ENDO	UNK	RV
	S 71	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	S 72	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	S 79	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	S 81	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	S 82	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	S 89	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	T 51	LOE		5 mm	UNI	Tines	ENDO	UNK	RV
	T 51B	LOE		3.2 mm LP	BI	Tines	ENDO	UNK	RV
	T 52	LOE		5 mm	UNI	Tines	ENDO	UNK	RV
	T 59	LOE		5 mm	UNI	Tines	ENDO	UNK	RV
	T 59B	LOE		3.2 mm LP	BI	Tines	ENDO	UNK	RV
	TP 13	Facet		5 mm	UNI	Tines	ENDO	UNK	RV
	TP 19	Facet		5 mm	UNI	Tines	ENDO	UNK	RV

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	TP 53	Facet		5 mm	UNI	Tines	ENDO	UNK	RV
	TP 53B	Facet		3.2 mm LP	BI	Tines	ENDO	UNK	RV
	TP 59	Facet		5 mm	UNI	Tines	ENDO	UNK	RV
	TP 59B			3.2 mm LP	BI	Tines	ENDO	UNK	RV
	TR 45JB		VMP	IS-1	BI	J+Tines	ENDO	SIL	RA
	TR 52B		VMN	IS-1	BI	Tines	ENDO	SIL	RV
	TR 52B		VMM	IS-1	UNI	Tines	ENDO	SIL	RV
	TR 53JB		VMP	IS-1	BI	J+Tines	ENDO	SIL	RA
	TR 58B		VMN	IS-1	BI	Tines	ENDO	SIL	RV
	TR 58B		VMM	IS-1	UMI	Tines	ENDO	SIL	RV
	U 11	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	U 19	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	U 71	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	U 72	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	U 79	Helifix		5 mm	UNI	Screw in	ENDO	UNK	RV
	VF 55	Helifix		Vitatron	UNI	Flange	ENDO	UNK	RV
	VF 56	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VF 59	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VFP 57	Flanged poreus electrode		Vitatron	UNI	Flange	ENDO	UNK	RV
	VFP 58	Flanged poreus electrode		Vitatron	UNI	Flange	ENDO	UNK	RV
	VFP 59	Flanged poreus electrode		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 25	Model 2147		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 26	Model 2147		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 29	Model 2147		Vitatron	UNI	Flange	ENDO	UNK	RV

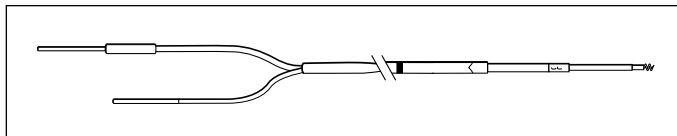
LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer	
	Number	Name						Insulation	Location
low-voltage leads	VS 35	Model 3147		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 36	Model 3147		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 39	Model 3147		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 55	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 56	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 59	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 65	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 66	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 69	LOE		Vitatron	UNI	Flange	ENDO	UNK	RV
	VS 71	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VS 72	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VS 79	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VS 81	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VS 82	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VS 89	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VT 51	Helifix		Vitatron	UNI	Tines	ENDO	UNK	RV
	VT 52	LOE		Vitatron	UNI	Tines	ENDO	UNK	RV
	VT 59	LOE		Vitatron	UNI	Tines	ENDO	UNK	RV
	VTP 53	Tined poreus electrode		Vitatron	UNI	Tines	ENDO	UNK	RV
	VTP 54	Tined poreus electrode		Vitatron	UNI	Tines	ENDO	UNK	RV
	VTP 59	Tined poreus electrode		Vitatron	UNI	Tines	ENDO	UNK	RV
	VU 71	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV
	VU 72	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV

Vitatron [Medtronic, Inc.]

LV	Model		Serial ID	Connectors Sense/Pace	Polarity	Fixation	Placement	Outer Insulation Location	
	Number	Name							
low-voltage leads	VU 79	Helifix		Vitatron	UNI	Screw in	ENDO	UNK	RV



Medtronic Adaptors and Accessories



Model 6416 Screw-In Temporary Lead

Polarity	Bipolar
Location	Ventricle or Atrium
Fixation	Screw-in
Material	
Insulator	Polyurethane
Conductor	Stainless Steel
Helix	Stainless Steel
Diameters	
Body	3.5 French, 1.1 mm
Guide Catheter	.60 French (outer)
	5.0 French (inner)
Electrode Configuration	Helix fixed-screw
Helix Length	0.8 mm
Electrode Surface Area	
Tip	.43 mm ²
Ring	.17 mm ²

Steroid No

Standard Lengths

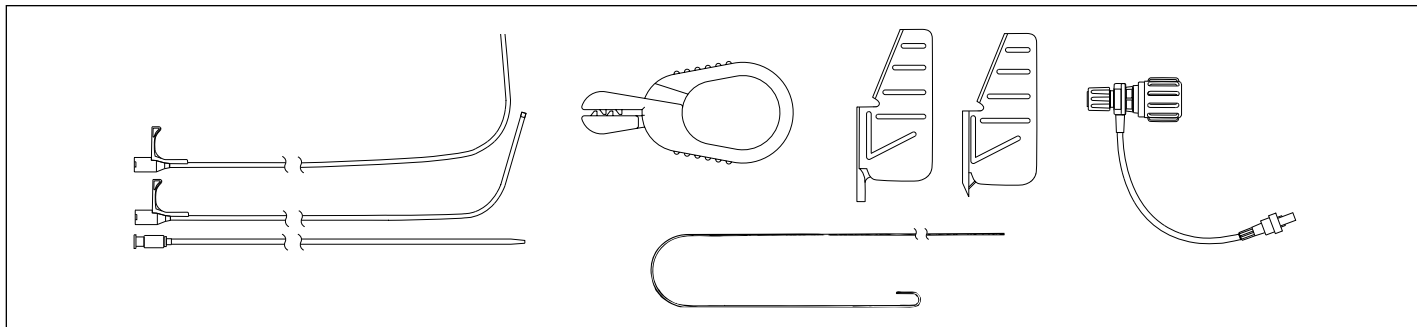
Lead	100, 140, 200 (cm)
Guide Catheter	40, 60, 90 (cm)

Conductor Resistance

Tip	105 ohms (200 cm)
Ring	63 ohms (200 cm)

Connector Bifurcated, pull-through
Short arm = positive
Long arm = negative

Medtronic Adaptors and Accessories



Model 6216A Attain[®] LDS Left-Heart Delivery System

Guide Wire

Material	Stainless steel
Length	120 cm
Diameter	0.09 cm, 0.035 inches

Adjustable Hemostasis Valve

Inner Diameter	15 French maximum
----------------------	-------------------

MB1 Guide Catheter

Material	Polyether block amide
Usable Length	40 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

MB2 Guide Catheter

Material	Polyether block amide
Usable Length	45 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyethylene
Length	54 cm
Outer Diameter	7 French, 2.3 mm

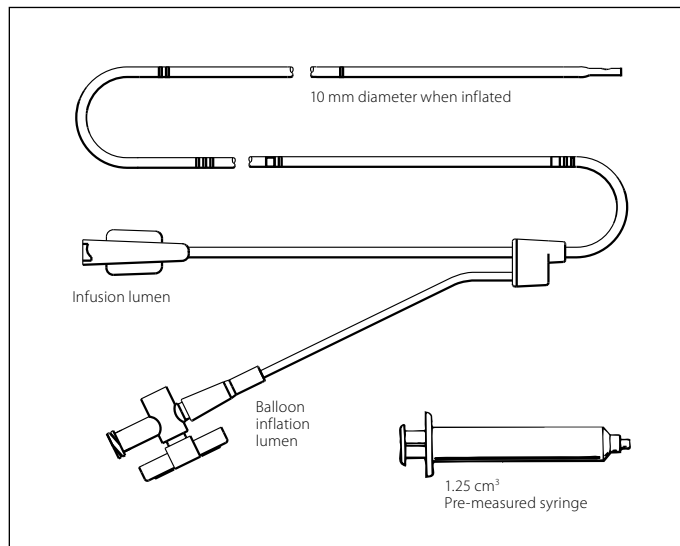
Guide Catheter Slitters

Inner Diameter	6 French, 1.9 mm
Outer Diameter	4 French, 1.4 mm

Guide Wire Clip

Material	Acrylonitrile Butadiene Styrene (ABS)
----------------	---------------------------------------

Medtronic Adaptors and Accessories



Model 6215 Attain® Venogram Balloon Catheter

Materials

Catheter Body.....	Polyurethane
Balloon.....	Latex

Catheter Body

Outer Diameter	.6 French, 1.9 mm
----------------------	-------------------

Recommended Guide Catheter Size

Inner Diameter	7.0 French
----------------------	------------

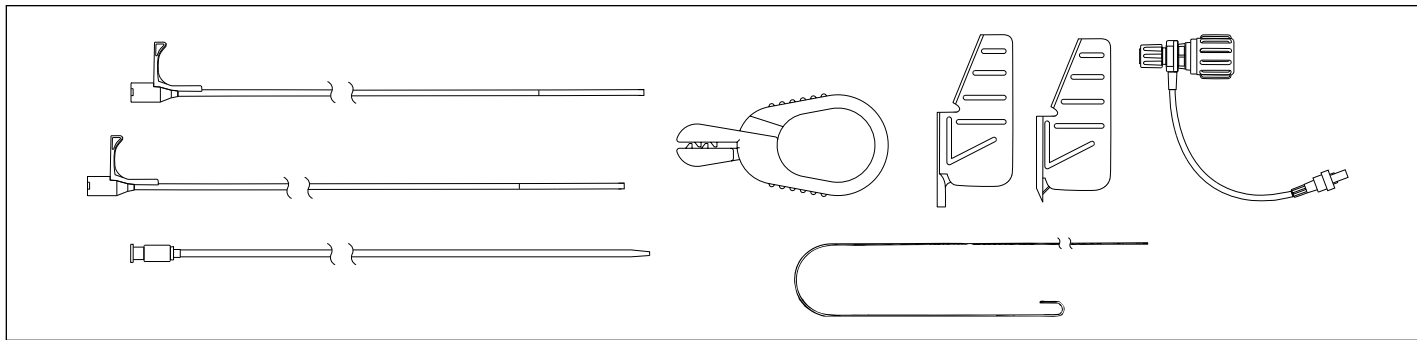
Balloon

Maximum Inflation Capacity	1.25 cc
Inflated Balloon Diameter	10 mm

Usable Length.....80 cm

Controlled Stroke Inflation Syringe Volume1.25 cc max

Medtronic Adaptors and Accessories



Model 6218A Attain[®] Access Left-Heart Delivery System

Guide Wire

Material	Stainless steel
Length	120 cm
Diameter	0.09 cm, 0.035 inches

Adjustable Hemostasis Valve

Inner Diameter	15 French maximum
----------------------	-------------------

Straight, Soft-Tipped Guide Catheters

Material	Polyether block amide
Usable Length	45, 50 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyethylene
Length	60 cm
Outer Diameter	7 French, 2.3 mm

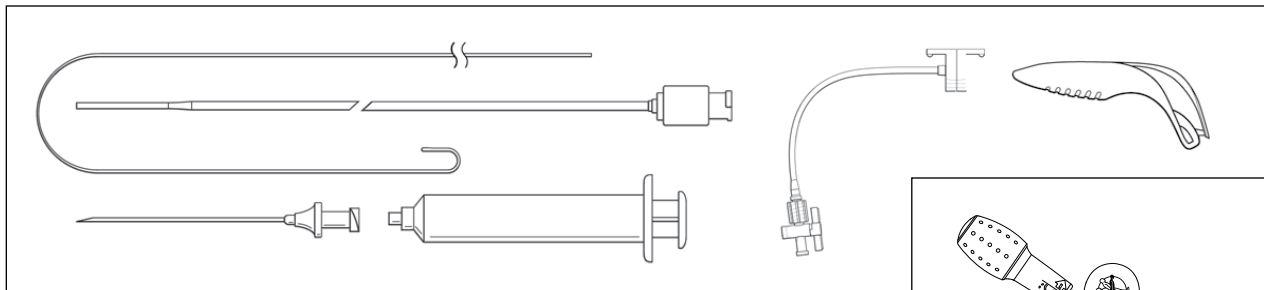
Guide Catheter Slitters

.....	6 French, 1.9 mm
-------	------------------

Guide Wire Clip

Material	Acrylonitrile Butadiene Styrene (ABS)
----------------	---------------------------------------

Medtronic Adaptors and Accessories



Model 6226DEF Attain Prevail™ Deflectable Catheter Delivery System

Guide Wire

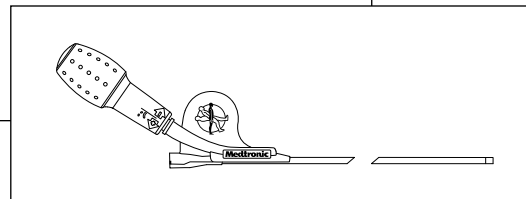
Material	Stainless steel
Length	100 cm
Diameter	0.09 cm, 0.035 in

Introducer Valve

Material	Silicone
Inner Diameter	9 French maximum

Deflectable Catheter

Material	Polyether block amide
Length	45.0 cm
Inner Diameter	7.2 French, 2.4 mm
Outer Diameter	9.9 French, 3.3 mm



Deflatable Catheter Dilator

Material	Polyethylene
Usable Length	60.5 cm
Outer Diameter	7.0 French, 2.3 mm

Universal Slitter

Material	Stainless steel
Size of Compatible	
Lead Diameter	6.2 French maximum,
	2.1 mm maximum

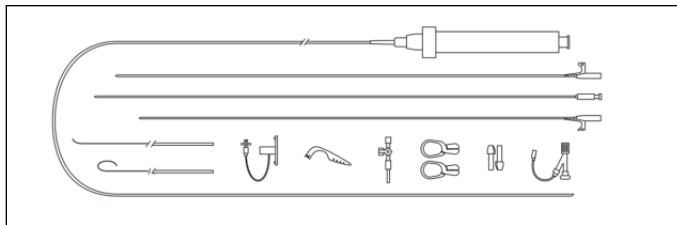
Needle

Syringe

8 gauge, 1.2 mm

12 cc

Medtronic Adaptors and Accessories



Model 6228SYS Attain Prevail™ Left-Heart Delivery System

Steerable Catheter

Material	Polyether block amide
Length	100 cm
Inner Diameter	1.0 mm, 0.039 in
Outer Diameter	7 French, 2.3 mm

Guide Wire

Material	Stainless steel
Length	180 cm, 70.9 in
Diameter	0.016 in, 0.4 mm

Introducer Guide Wire

Material	Stainless steel
Length	145 cm
Diameter	0.035 in, 0.09 cm

Introducer Valve

Material	Silicone
Inner Diameter	9 French maximum

3-way Stopcock

Material	Polycarbonate
Inner Diameter	1.9 mm, 0.077 in

Y Connector with Adjustable Hemostasis Valve

Inner Diameter	2.8 mm, 0.110 in
----------------------	------------------

Straight, Soft-Tipped Guide Catheters

Material	Polyether block amide
Usable Length	45 cm, 50 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyethylene
Length	60 cm
Outer Diameter	7 French, 2.3 mm

Universal Slitter

Material	Stainless steel
Size of Compatible	
Lead Diameter	6.2 French maximum, 2.1 mm maximum

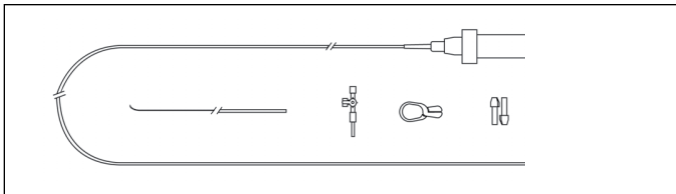
Guide Wire Clip

Material	Acrylonitrile Butadiene Styrene (ABS)
Length	5.08 cm, 2 in
Width	2.54 cm, 1 in

Guide Wire Torque Tool

Quantity	2
Material	Polypropylene and polycarbonate
Length	4.06 cm, 1.6 in
Diameter	102 mm, 0.4 in
Maximum Size Wire	0.457 mm, 0.018 in

Medtronic Adaptors and Accessories



Model 6228CTH Attain Prevail™ Steerable Catheter

Steerable Catheter

Material	Polyether block amide
Length	80 cm, 100 cm, 39.4 in
Inner Diameter	1.0 mm, 0.039 in
Outer Diameter	7 French, 2.3 mm

Guide Wire

Material	Stainless steel
Length	180 cm, 70.9 in
Diameter	0.4 mm, 0.016 in

3-Way Stopcock

Material	Polycarbonate
Maximum Inner Diameter	1.9 mm, 0.077 in

Y Connector with Adjustable Hemostasis Valve

Inner Diameter	2.8 mm
----------------	--------

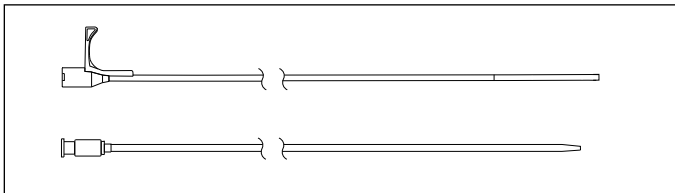
Guide Wire Clip

Material	Acrylonitrile Butadiene Styrene (ABS)
Length	5.08 cm, 2 in
Width	2.54 cm, 1 in

Guide Wire Torque Tool

Quantity	2
Material	Polypropylene and polycarbonate
Length	4.06 cm, 1.6 in
Diameter	102 mm, 0.4 in
Maximum Size Wire	0.457 mm, 0.018 in

Medtronic Adaptors and Accessories



Model 6218A-45S Attain® Straight Guide Catheter

Model 6218A-50S Attain® Straight Guide Catheter

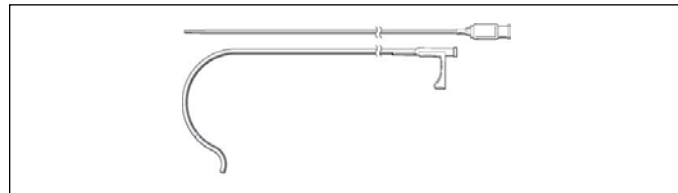
Model 6218A-57S Attain® Straight Guide Catheter

Straight Soft-Tipped Guide Catheter

Material	Polyether block amide
Usable Length	45 cm, 50 cm, 57.5 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyethylene
Length	60 cm
Outer Diameter	7 French, 2.3 mm



Model 6218A-AM Attain® Amplatzer Guide Catheter

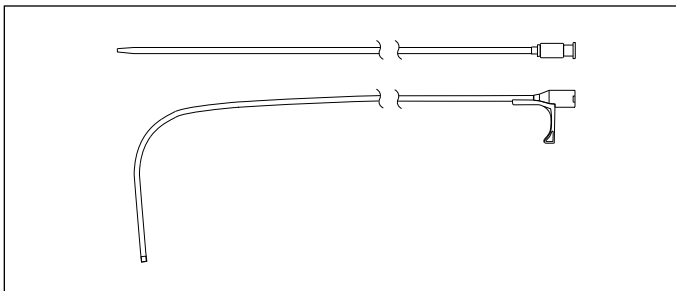
Amplatzer Guide Catheter

Material	Polyether block amide
Usable Length	48.5 cm
Inner Diameter	7 French, 2.3 mm
Outer Diameter	9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyether block amide
Usable Length	60 cm
Outer Diameter	7 French, 2.3 mm

Medtronic Adaptors and Accessories



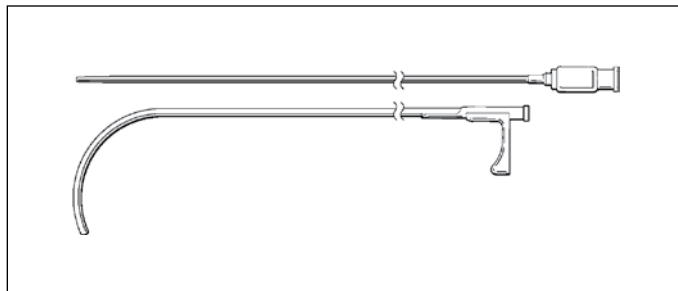
Model 6216A-MB2 Attain® MB2 Guide Catheter

MB2 Guide Catheter

Material	Polyether block amide
Usable Length	.45 cm
Inner Diameter	.7 French, 2.3 mm
Outer Diameter	.9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyethylene
Length	.60 cm
Outer Diameter	.7 French, 2.3 mm



Model 6216A-MP Attain® Multipurpose Guide Catheter

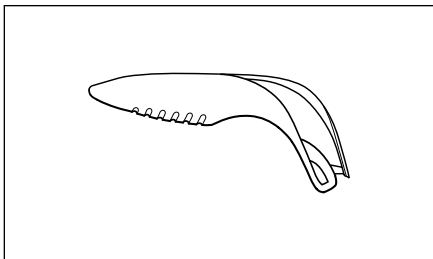
Multipurpose Guide Catheter

Material	Polyether block amide
Usable Length	.48.5 cm
Inner Diameter	.7 French, 2.3 mm
Outer Diameter	.9 French, 3.0 mm

Guide Catheter Dilator

Material	Polyether block amide
Usable Length	.60 cm
Outer Diameter	.7 French, 2.3 mm

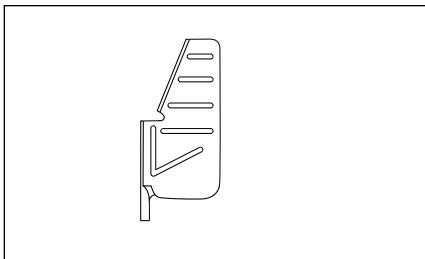
Medtronic Adaptors and Accessories



Model 6228SLT Medtronic Universal Slitter
Universal Slitter

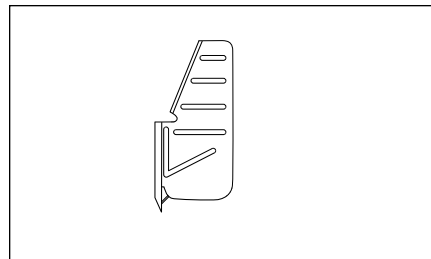
MaterialStainless steel
Compatible Lead Diameter......6.2 French maximum,
2.1 mm maximum

Single use only, disposable.



Model 6218RED Guide Catheter Slitters
Guide Catheter Slitters

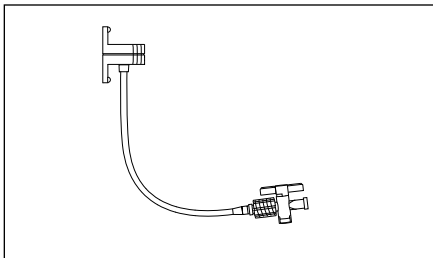
Quantity2
Compatible Lead Diameter......4 French, 1.3 mm



Model 6218GRN Guide Catheter Slitters
Guide Catheter Slitters

Quantity2
Compatible Lead Diameter......6 French, 2.0 mm

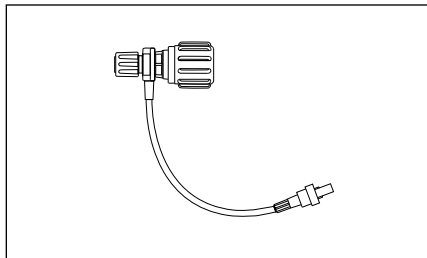
Medtronic Adaptors and Accessories



Model 6228VAL* Introducer Valve

Introducer Valve

MaterialSilicone
Inner Diameter9 French maximum

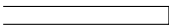


Model 6218VAL Hemostasis Valve

Adjustable Hemostasis Valve

Inner Diameter 15 French maximum

Stylets

<i>Model #</i>	<i>Knob Color</i>	<i>Shape</i>	<i>Diameter</i>	<i>Distal End</i>	<i># in Kit</i>	<i>Lengths</i>
6048	 green		0.014 in	Blunt	2	45, 52, 58, 65, 85
6057	 blue		0.014 in	Ball-tipped	2	45, 52, 53, 58, 65, 75, 110
6082	 gray		0.014 in	Extended-taper, Ball-tipped	2	45, 52, 58, 65, 75, 110
6054	 rust		0.016 in	Tapered, Ball-tipped	2	45, 52, 53, 58, 65, 75, 85, 110
6093	 purple		0.016 in	Extended-taper, Ball-tipped	2	52, 58, 65, 75, 85, 100
6254*	 rust		0.016 in	Tapered, Ball-tipped	15	75, 85
6282*	 gray		0.014 in	Extended-taper, Ball-tipped	15	75, 85
6293*	 purple		0.016 in	Extended-taper, Ball-tipped	15	75, 85



Stylets

<i>Model #</i>	<i>Knob Color</i>	<i>Shape</i>	<i>Diameter</i>	<i>Distal End</i>	<i># in Kit</i>	<i>Lengths</i>
6052	 white		0.014 in	Blunt	2	45, 53, 58
6091	 gray		0.014 in	Extended-taper, Ball-tipped	2	45, 53, 58, 65
6094	 blue		0.014 in	Extended-taper, Ball-tipped	2	45, 52, 58

FlowGuard™ Valved Peelable Introducer*

Single-Pack Configuration			
Model Number	Introducer Size (Fr)	Sheath Length (cm)	Dilator Length (cm)
10729-001	7.0	13	18
10729-002	8.0	15	21.5
10729-003	9.0	15	21.5
10729-004	10.5	15	21.5

Five-Pack Configuration			
Model Number	Introducer Size (Fr)	Sheath Length (cm)	Dilator Length (cm)
10730-001	7.0	13	18
10730-002	8.0	15	21.5
10730-003	9.0	15	21.5
10730-004	10.5	15	21.5



Valve Yes
 Flush Port No
 Available Sizes (Fr) 7, 8, 9, 10.5
Packaging Configuration
 Single
 Five Packs
 Peelable Yes
 Dilator Lock Yes

* Manufactured by Enpath Medical, Inc.

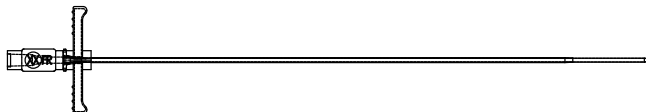
Peelable Percutaneous Lead Introducers (PLI)

Single Chamber (one sheath per kit)

<i>Size</i>	<i>Model #</i>	<i>Number of Kits</i>
7 French	6207-S1	1
	6207-S5	5
8 French	6208-S1	1
	6208-S5	5
9 French	6209-S1	1
	6209-S5	5
10.5 French	6210-S1	1
	6210-S5	5
11 French	6211-S1	1
	6211-S5	5
12 French	6212-S1	1
	6212-S5	5
14 French	6214-S1	1
	6214-S5	5

Dual Chamber (two sheaths and two guide wires per kit)

<i>Size</i>	<i>Model #</i>	<i>Number of Kits</i>
7 French	6207-D1	1
8 French	6208-D1	1
9 French	6209-D1	1
10.5 French	6210-D1	1
11 French	6211-D1	1



Peelable Percutaneous Lead Introducers (PLI) with Safety Needles*

Single Chamber (one sheath per kit)

<i>Size</i>	<i>Model #</i>	<i>Number of Kits</i>
7 French	6207-S1S	1
	6207-S5S	5
8 French	6208-S1S	1
	6208-S5S	5
9 French	6209-S1S	1
	6209-S5S	5
10.5 French	6210-S1S	1
	6210-S5S	5
11 French	6211-S1S	1
	6211-S5S	5
12 French	6212-S1S	1
	6212-S5S	5
14 French	6214-S1S	1
	6214-S5S	5

Dual Chamber (two sheaths and two guide wires per kit)

<i>Size</i>	<i>Model #</i>	<i>Number of Kits</i>
7 French	6207-D1S	1
8 French	6208-D1S	1
9 French	6209-D1S	1
10.5 French	6210-D1S	1
11 French	6211-D1S	1

*Not available outside the United States.

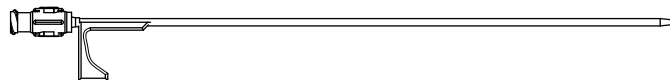
SOLO-TRAK® Percutaneous Lead Introducer (PLI) Kits

Single Chamber (one 15.5 cm/6.25 in sheath per kit)

Size	Model #	Quantity	Slitter Tool
7 French	6207-BTK1 6207-BTK5	1 5	4F, 5F, and 6F
8 French	6208-BTK1 6208-BTK5	1 5	4F, 5F, and 6F
9 French	6209-BTK1 6209-BTK5	1 5	6F, 7F, and 9F
10.5 French	6210-BTK1 6210-BTK5	1 5	5F, 7F, and 9F
11 French	6211-BTK1 6211-BTK5	1 5	7F, 9F, and 11F
12 French	6212-BTK1 6212-BTK5	1 5	7F, 9F, and 11F
14 French	6214-BTK1 6214-BTK5	1 5	5F, 7F, and 11F

Extra-Long Single Chamber (one 23.5 cm/9.25 in sheath per kit)

Size	Model #	Number of Kits	Slitter Tool
7 French	6207-BTKL1	1	4F, 5F, and 6F
8 French	6208-BTKL1	1	4F, 5F, and 6F
9 French	6209-BTKL1	1	6F, 7F, and 9F
10.5 French	6210-BTKL1	1	5F, 7F, and 9F
Dual Chamber (two sheaths and two guide wires per kit)			
7 French	6207-BTK - D1	1	4F, 5F, and 6F
8 French	6208-BTK - D1	1	4F, 5F, and 6F
9 French	6209-BTK - D1	1	6F, 7F, and 9F
10.5 French	6210-BTK - D1	1	5F, 7F, and 9F
11 French	6211-BTK - D1	1	7F, 9F, and 11F



SOLO-TRAK® Percutaneous Lead Introducer (PLI) Kits with Safety Needles*

Single Chamber (one 15.5 cm/6.25 in sheath per kit)

Size	Model #	Quantity	Slitter Tool
7 French	6207-BTK1S 6207-BTK5S	1 5	4F, 5F, and 6F
8 French	6208-BTK1S 6208-BTK5S	1 5	4F, 5F, and 6F
9 French	6209-BTK1S 6209-BTK5S	1 5	6F, 7F, and 9F
10.5 French	6210-BTK1S 6210-BTK5S	1 5	5F, 7F, and 9F
11 French	6211-BTK1S 6211-BTK5S	1 5	7F, 9F, and 11F
12 French	6212-BTK1S 6212-BTK5S	1 5	7F, 9F, and 11F
14 French	6214-BTK1S	1	5F, 7F, and 11F

Extra-Long Single Chamber (one 23.5 cm/9.25 in sheath per kit)

Size	Model #	Number of Kits	Slitter Tool
7 French	6207-BTKL1S	1	4F, 5F, and 6F
8 French	6208-BTKL1S	1	4F, 5F, and 6F
9 French	6209-BTKL1S	1	6F, 7F, and 9F
10.5 French	6210-BTKL1S	1	5F, 7F, and 9F
Dual Chamber (two sheaths and two guide wires per kit)			
7 French	6207-BTK - D1S	1	4F, 5F, and 6F
8 French	6208-BTK - D1S	1	4F, 5F, and 6F
9 French	6209-BTK - D1S	1	6F, 7F, and 9F
10.5 French	6210-BTK - D1S	1	5F, 7F, and 9F
11 French	6211-BTK - D1S	1	7F, 9F, and 11F

*Not available outside the United States.

Safe Sheath® Percutaneous Lead Introducer (PLI)^{a,b,c}

Safe Sheath models include a 13 cm tear-away valved Sheath system with side port and a 20 cm dilator.

Size ^c (without Guide Wire)	Model #	Number of Kits
7 French	HLS-1007M	5
8 French	HLS-1008M	5
9 French	HLS-1009M	5
9.5 French	HLS-10095M	5
10.5 French ^b	HLS-10105M	5
11 French	HLS-1011M	5
12 French	HLS-1012M	5
12 French	HLS-10125M	5

Safe Sheath® Percutaneous Lead Introducer (PLI)^{a,b,c}

Safe Sheath models include a 25 cm tear-away valved Sheath system with side port and a 31.5 cm dilator.

Size ^c (without Guide Wire)	Model #	Number of Kits
7 French	HLS-2507M	5
8 French	HLS-2508M	5
9 French	HLS-2509M	5
10 French	HLS-2510M	5
10.5 French ^b	HLS-25105M	5
11 French	HLS-2511M	5

Pacing Leads

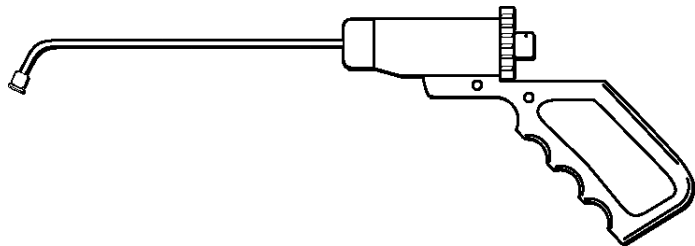
- ^a Do not use this introducer for a fixed-screw pacing lead.
- ^b An 11 French Safe Sheath is required for any Medtronic pacing lead that recommends a 10.5 introducer.

Defibrillation Leads

- ^c If the Safe Sheath is used to introduce a transvenous defibrillation lead, use a Safe Sheath introducer that is a minimum half-French size larger than the introducer size recommended by the documentation supplied with the lead.

Caution: DO NOT WITHDRAW a defibrillation lead through the Safe Sheath introducer. Withdrawing a transvenous defibrillation lead through the Safe Sheath introducer IS CONTRAINDICATED and may distort the lead's coil electrode. If a lead is withdrawn through the Safe Sheath, do not implant the lead.

Epicardial Lead Implant Tool



Model 10626

Use:

Materials:

Overall Length:

Shaft Length:

Shaft Angle:

Epicardial Lead Implant Tool

A single-use device indicated to facilitate placement of the Model 5071 pacing lead

Acetal resin and stainless steel

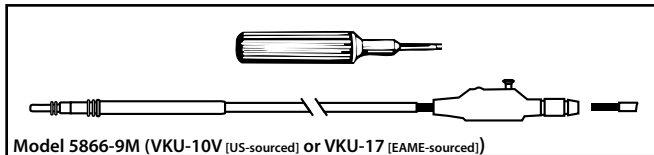
35 cm

18 cm

65°

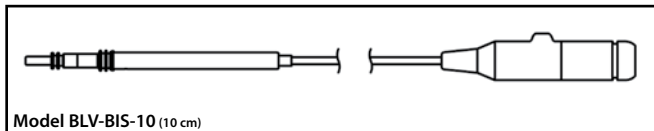
Do not use the tool to place the Model 5071 pacing lead on portions of the heart where visualization of the lead is not possible.

Adaptor Kits for Pacing Leads



Model 5866-9M
VKU-10V*
[US-sourced]
or VKU-17**
[EAME-sourced]

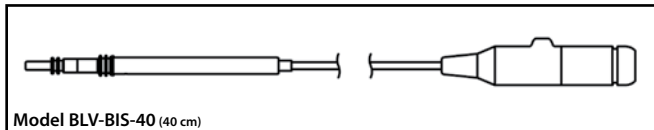
Unipolar Lead Body to IS-1 IPG Lead Adaptor Kit



Model BLV-BIS-10 (10 cm)

Adapts

LV-1 bipolar lead to IS-1 bipolar IPG



Model BLV-BIS-40 (40 cm)

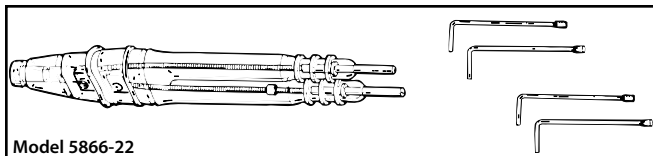
Adapts

LV-1 bipolar lead to IS-1 bipolar IPG

* Manufactured by Ocor, Inc.

** Manufactured by Osypka

Adaptor Kits for Pacing Leads



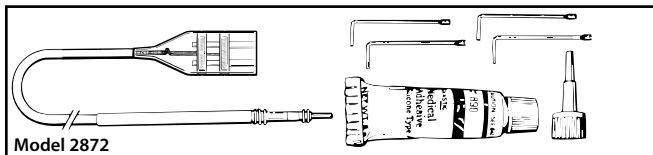
Model 5866-22

Model 5866-22

Serial ID:
Connects:
To:

3.2 mm Bipolar Lead to Bifurcated Bipolar IPG Adaptor Kit

LJ
Medtronic 3.2 mm low-profile bipolar
Bifurcated bipolar IPG



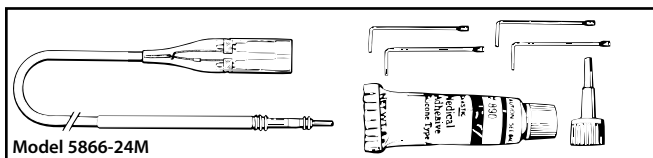
Model 2872

Model 2872

Serial ID:
Connects:
To:

Two IS-1 BI Leads to IS-1 BI IPG Adaptor Kit

LEV
Two IS-1 bipolar leads
IS-1 bipolar IPG



Model 5866-24M

Model 5866-24M

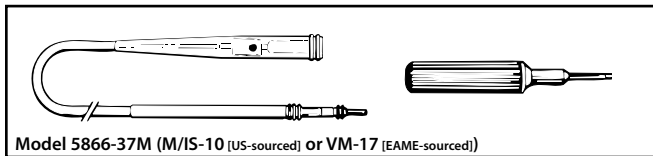
Serial ID:
Connects:

To:

5 mm Bifurcated Bipolar Lead or Two 5 mm Unipolar Leads to IS-1 Bipolar IPG Adaptor Kit

LBK
Medtronic 5 mm bifurcated bipolar lead or
two 5 mm unipolar leads
IS-1 bipolar IPG

Adaptor Kits for Pacing Leads



Model 5866-37M **M/IS-10*** [US-sourced] **or VM-17**** [EAME-sourced]

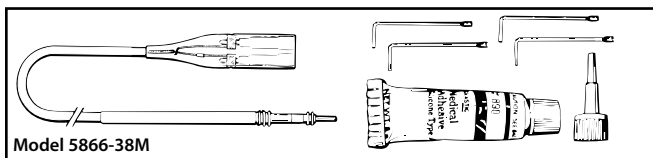
Connects:

To:

5 mm UNI Lead to IS-1 UNI IPG Adaptor Kit

Medtronic 5 mm unipolar lead

IS-1 unipolar IPG



Model 5866-38M

Serial ID:

Connects:

To:

Two IS-1 UNI Leads to IS-1 BI IPG Adaptor Kit

LBE

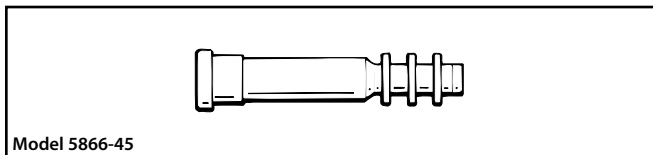
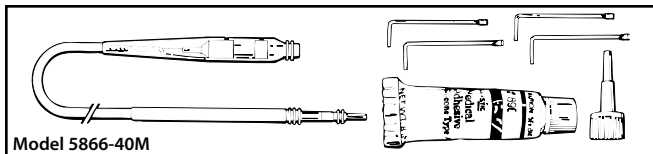
Two IS-1 unipolar leads

IS-1 bipolar IPG

* Manufactured by Oscor, Inc.

** Manufactured by Osypka

Adaptor Kits for Pacing Leads



Model 5866-40M

Serial ID:

Adapts/Extends:

To:

3.2 mm BI Lead to IS-1 BI IPG – Permanent Extension, Adaptor Kit

LBD

Medtronic 3.2 mm low-profile bipolar lead 14.1 cm (5.6 in)

IS-1 bipolar IPG

Model 5866-45

Upsizes:

To:

Sleeve Length:

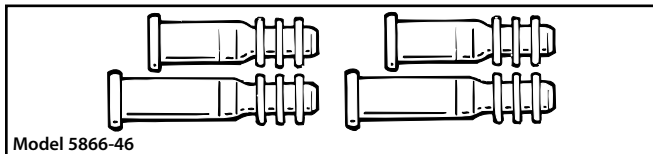
IS-1 UNI Lead to 5/6 mm UNI IPG Upsizing Sleeve

IS-1 unipolar or bipolar lead

5/6 mm universal, unipolar IPG

25 mm (1 in)

Adaptor Kit for Pacing Leads/Lead Extender Kits for Long-Term Pacing Leads



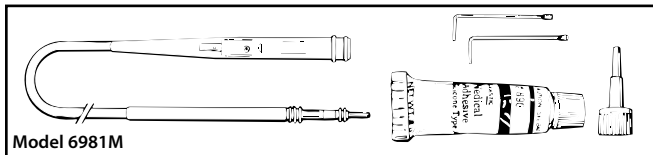
Model 5866-46

Upsizes:
To:

Sleeve Lengths:

IS-1 UNI Lead to 5 mm UNI IPG or 5 mm Bifurcated BI IPG Upsizing Sleeve

IS-1 unipolar or bipolar lead
5 mm unipolar IPG or
5 mm bifurcated bipolar IPG
Approximately 18 mm (0.7 in) and 21 mm (0.8 in)

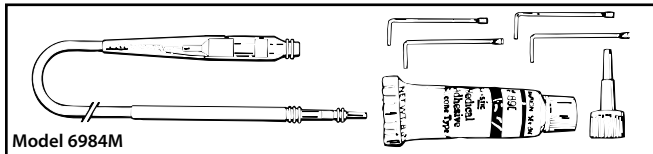


Model 6981M

Serial ID:
Extends:
To Connect to:

IS-1 UNI Lead to IS-1 UNI IPG – Permanent Lead Extension Kit

LBF
IS-1 unipolar lead 42.4 cm (17 in)
IS-1 unipolar IPG



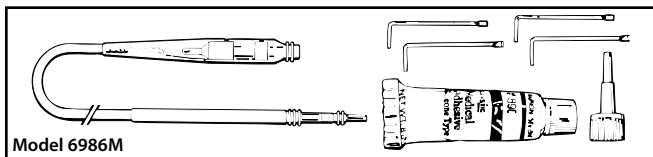
Model 6984M

Serial ID:
Extends:
To Connect to:

IS-1 BI Lead to IS-1 BI IPG – Permanent Lead Extension Kit

LBU
IS-1 bipolar lead 37.0 cm (14.6 in)
IS-1 bipolar IPG

Lead Extender Kit for Long-Term Pacing Leads/Lead Extender Kit for Temporary Pacing Leads

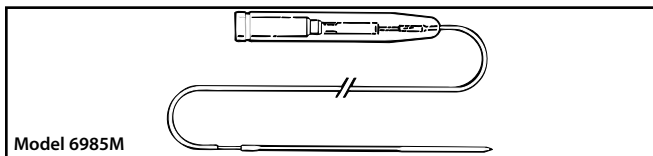


Model 6986M

Serial ID:
Extends:
To Connect to:

3.2 mm BI Lead to IS-1 BI IPG – Permanent Lead Extension Kit

LBW
3.2 mm low-profile bipolar lead 37.0 cm (14.6 in)
IS-1 bipolar IPG



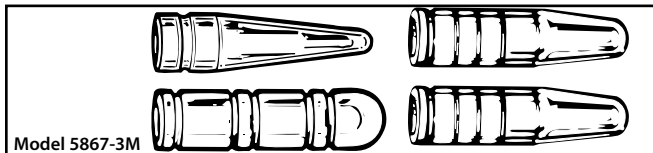
Model 6985M

Extends:
To Connect to:

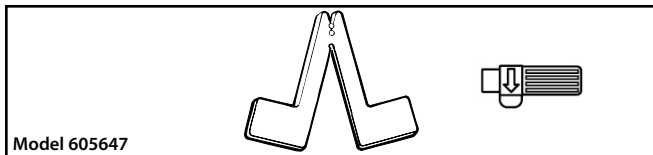
IS-1 UNI Lead to EPG – Temporary Lead Extension Kit

IS-1 unipolar lead 50.0 cm (19.5 in)
Unipolar external pulse generator

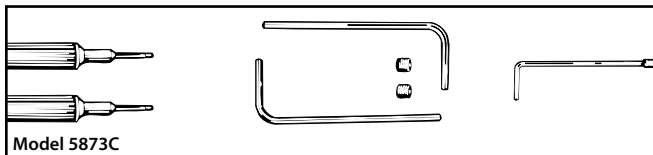
Other Accessories for All Leads



Model 5867-3M



Model 605647



Model 5873C

Model 5867-3M

Includes:

Lead End Cap Kit

2 caps for two 5 mm unipolar or one 5 mm bifurcated bipolar lead
1 cap for IS-1 unipolar or bipolar lead
1 cap for Medtronic 3.2 mm low-profile bipolar lead or
severed lead bodies with an outer diameter of 4.6 to 8.4 French (1.5 mm to 2.8 mm)

Model 605647

Includes:

Helix Extension Tools for Medtronic Screw-in Leads

1 pinch-on tool
1 Quick Twist® tool

Model 5873C

Includes:

Lead Service Installation Kit

2 #2 white hex wrenches
1 #4 wrench
2 #6 wrenches
2 5/6 x 0.113 set screws

Other Accessories for All Leads



Model 5873W

Includes:

Lead Wrench Kit

- 1 #2 white hex wrench
- 1 #2 torque wrench

Part # 080118

Medical Adhesive

Model 670715

Extends
To Connect to

Downsizing Adaptor for HV Lead

6.5 mm HV, unipolar lead to DF-1 (15 cm)
DF-1, unipolar defibrillator port

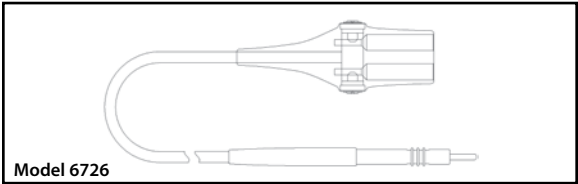
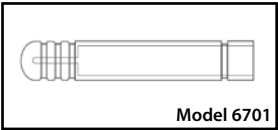
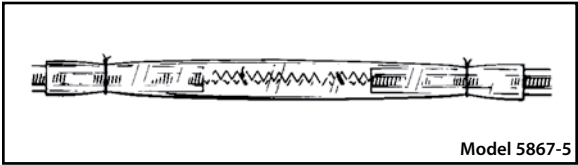
Model 670735

Extends
To Connect to

Downsizing Adaptor for HV Lead

6.5 mm HV, unipolar lead to DF-1 (35 cm)
DF-1, unipolar defibrillator port

Other Accessories for All Leads



Model 5867-5
Includes:

UNI Lead Splice Kit
Medical adhesive and silicone tubing for repairing unipolar, silicone leads with coil conductors. Silicone rubber tubing for three diameters: 6.1, 8.3, and 10.7 French.

Model 6295
Includes:

Attain StarFix® Accessory Kit

- 2 acute retention clips
- 2 guide wire insertion tools
- 2 guide wire guides

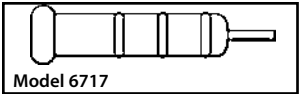
Model 6701

End pin cap for 6.5 mm lead, two per kit

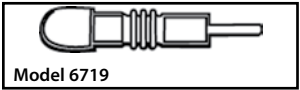
Model 6726

Y Adaptor/Extender adapts two DF-I leads to a single common DF-I, one per kit, includes one 6719 DF-I pin plug

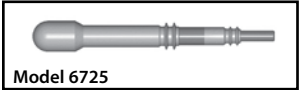
Other Accessories for All Leads



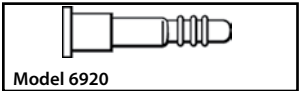
Model 6717 6.5 mm unipolar connector port pin plug, one per kit



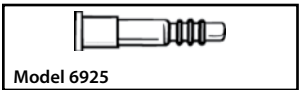
Model 6719 DF-1 unipolar connector port pin plug, one per kit



Model 6725 IS-1 connector port pin plug, one per kit



Model 6920 Upsizing sleeve for HV lead: DF-1 unipolar or 3.2 mm low-profile unipolar to 6.5 mm unipolar, three per kit

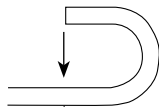


Model 6925 Upsizing sleeve for HV lead 5 mm unipolar to 6.5 mm unipolar, two per kit

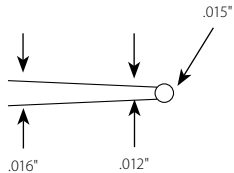
Medtronic Stylets*



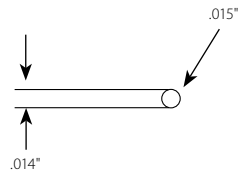
**6048
GREEN**



**6052
WHITE**

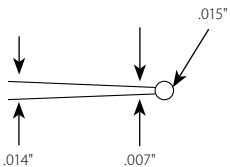


**6054
RUST**

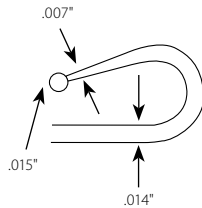


**6057
BLUE**

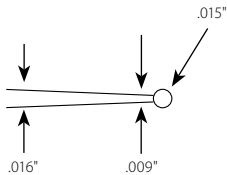
← color of stylet knob



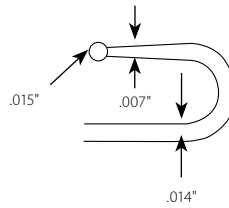
**6082
GRAY**



**6091
GRAY-J**



**6093
PURPLE**

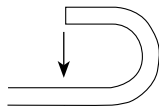


**6094
BLUE-J**

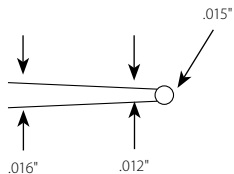
Medtronic Stylets*



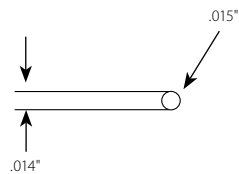
6048
GREEN



6052
WHITE

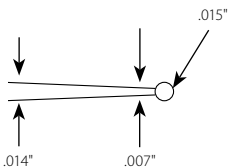


6054
RUST

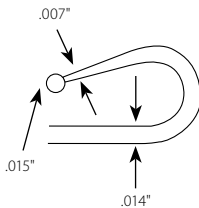


6057
BLUE

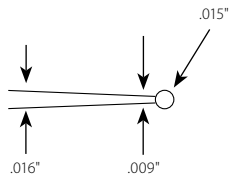
← color of stylet knob



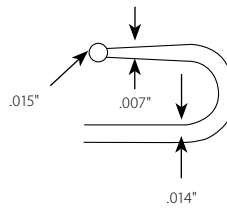
6082
GRAY



6091
GRAY-J



6093
PURPLE



6094
BLUE-J

Footnotes

- A** A two-step change in magnet rate.
B Abrupt change in paced or magnet rate or interval specified in % or ppm/ms.
C A gradual decline in paced and/or magnet rate.
D A gradual change in magnet rate only specified in % or ppm.
E TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 80 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with a 10% decrease in PR and 20% decrease in magnet rate at ERI. PW stretching of 30% at ERI. No PW stretching with Legend II, Legend Plus and Legacy SR pulse generators.
F A sudden 100 ms increase in paced and/or magnet rate intervals.
G TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 90 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with an abrupt 10% rate decrease at ERI. PW stretching of 40-85% at ERI.
H No TMT. Magnet rate at BOL is 10% greater than pacing rate. Gradual 8% decrease in pacing and magnet rate at ERI. PW stretching of 40 to 85% at ERI.
J Undefined pulse width stretching at ERI.
K Application of a magnet causes an 18-event capture sequence at 80 ppm then programmed mode and rate for 16 events, then back to 80 ppm until magnet is removed.
L Magnet application causes an 18-event capture sequence at 80 ppm, then programmed mode and rate for 32 events, back to 80 ppm until magnet is removed.
M At ERT, magnet rate alternates between PR and 80 ppm on a beat-by-beat basis; output parameter values can be reprogrammed to extend service life.
N At EOL, Automatic Safety Reversion at 50 ppm, VVI/AAI, occurs with other parameter values nominal or as programmed; unit cannot be reprogrammed; magnet application results in asynchronous pacing at 50 ppm for 18 events.
O Note: 8619 and 8620 magnet rate is 90 ppm unless PR is greater than 90 ppm; then magnet rate is the same as PR.
P Early series models.
R Series Models known as the R & T series. Identified by a two-letter serial number prefix of R* or T* (* = wild card letter).
S PW reduced 50% on 3rd magnet output beat. Abrupt Magnet rate to 85 ppm at ERI.
T Simultaneous decrease in pulse amplitude to 4 V.
U AV settings of 200 or 230 ms, BOL magnet = 88; EOL magnet = 78.
W 10% increase in PR. 10% increase in PW in two steps, first step is 5% increase.
X S/N $\geq$ 18,000 will show 62.5 ppm magnet indicator only (except in the case of component malfunction).
Y S/N $\geq$ 4000 will show 62.5 ppm magnet indicator only (except in the case of component malfunction).
Z TMT with magnet application is 3 (sets of) asynchronous pulses at a rate of 100 ppm. The first two sequence of pulses are delivered at the programmed amp. The third sequence of pulses at a 20% reduction of the programmed amp.

- Aa** Investigational device, not market released in U.S. at time of printing.
Ba Nonmagnetic behavior as indicated in footnote (Ba) below. If programmed to SST, intrinsic rates above magnet rate will result in triggered pacing.
Ca TMT; with magnet application 4 cycles at a rate of 90 ppm, followed by asynchronous PR for 60 cycles or until magnet removal. PW reduced by 50% on fifth output pulse.
Da Asynchronous pacing for a minimum of 60 cycles at sensor determined rate.
Ea If the "ERI response" is programmed ON, bradycardia pacing interval lengthens by 51 ms and antitachycardia response is activated. If programmed OFF, there is no change in behavior at EOL.
Fa For SN > 25,000, EOL magnet rate is 83 ppm; for SN < 25,000, EOL magnet rate is 78 ppm.
Ga Prior to 4/4/83: 11.5 years at 2.5 V, 9 years at 5 V; after 4/4/83: 13.7 years at 2.5 V, 10.9 years at 5 V.
Ha X-ray ID is inverted.
Ja For radiopaque codes: CX1 or CZ1, $\geq$ 30% increase in PW indicates ERI.
Ka For EMERGENCY VVI settings of 5 V, 0.8 ms PW, 500 ohms, 100% pacing.
La Magnet response is 10 cycles for 90 ppm, then drops to PR. EOL is 10 cycles at 80 ppm, then drops to PR minus 11%.
Ma TMT with magnet application is 3 cycles (PW reduced by 25% on third cycle) at a rate 10% higher than magnet rate, followed by magnet rate. A two-step change in magnet rate at ERI (one step change for models 7100 and 7100E). PW stretching of 40 to 85% at ERI (85-115% for models 59935X, 7100, and 7100E).
Na No TMT. Gradual 10% decline in magnet rate only. PW stretching of 85-115% at ERI.
Oa TMT with magnet application is 2 cycles at a rate of 100 ppm (PW reduced by 25% on last cycle) followed by asynchronous pacing at set rate at BOL. Abrupt 10% rate decrease in both pacing and magnet rate at ERI. PW stretching of 85-115% at ERI.
Pa No TMT. Gradual 7% decrease in set rate and magnet rate. PW stretching of 85-115% at ERI.
Ra TMT with magnet application is 3 (sets of) asynchronous pulses at a rate of 100 ppm (PW reduced by 25% on the third pulse). For Kappa 400 devices, if "Extended TMT" is on, an additional four pulses occur (PW reduced by 50% on the 5th pulse, and by 75% on the 7th pulse).
Ta BOL magnet rate is 14% above PR. RRT is an abrupt decrease in magnet rate only to 11% below PR.
Ua Rechargeable: Recharging > weekly indicates RRT.
Va For S/N < 49999 - 15% decrease of magnet rate below PR.
Wa For S/N > 50,000 - 10% decrease of magnet rate below PR.
Xa An incremental change in magnet rate only, specified in % or ppm.

- Ab** The VARIO function is a two-phase test. The first phase is the battery test. Upon magnet application, the pulse generator will emit 16 pulses at a rate of 100 ppm at BOL. The rate of the 16 pulses will gradually decline over the life of the generator.
Bb ERT = Magnet rate < 85, PW stretches to 1.5 ms. EOL = PR drop of 20%, after magnet rate decrease.
Cb BOL 2 beats at 1000 ms, then off.
Db EOL 2 beats at 1150 ms, then off.
Eb BOL 2 beats at 1610 ms, then off.
Fb EOL 2 beats at 1710 ms, then off.
Gb Vario function.
Hb 20% rate decrease is a secondary replacement indicator.
Jb Reverts to single chamber operation.
Kb BOL magnet rate is equal to the preset nonprogrammable rate. While several preset rates are available, the rate indicated represents a relatively common rate.
Lb No Magnet Response. 10% decrease in pacing rate only.
Mb Two connector port versions were available. A side-by-side version which requires a screwdriver for the integral cap screws, or the top/bottom version which requires a #6 hex wrench. Determination of which connector may be possible from X-ray.
Nb Magnet function may be optionally overridden.
Ob TMT with magnet application is 3 cycles at a rate of 100 ppm (PW reduced 25% on last cycle), followed by asynchronous pacing at 85 ppm at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 40-85% at ERI.
Pb TMT with magnet application is 3 cycles at a rate of 100 ppm at BOL and 80 ppm at ERI (PW reduced 25% on last cycle), followed by asynchronous pacing at 85 ppm at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 30% at ERI. No PW stretching with Legacy SR, Legend II, or Legend Plus pulse generators. Activitrac II pulse generators have an additional Intensified Follow-Up Indicator (75 ppm in Activity Mode and a 10% rate decrease in other modes) with magnet application, this is not an ERI.
Rb Also IS-1 compatible when Engineering series is $\geq$ 5.
Sb Also IS-1 compatible when Engineering series is $\geq$ 3.
Tb Also IS-1 compatible when Engineering series is $\geq$ 4.
Ub Also IS-1 compatible when Engineering series is $\geq$ 4.
Vb TMT with magnet application is 3 cycles at a rate of 100 ppm (PW reduced 25% on last cycle), followed by asynchronous pacing at PR at BOL with an abrupt rate change to 65 ppm at ERI. PW stretching of 40-85% at ERI.
Xb After magnet removal the TMT will begin following 10 paced or sensed events at 120 ppm for 3 asynchronous pulses, with the third pulse at a reduced amplitude of 2.5 V. A fourth asynchronous pulse is added for an amplitude setting of 4.6 V.

www.medtronic.com

World Headquarters

Medtronic, Inc.
710 Medtronic Parkway
Minneapolis, MN 55432-5604
USA

Tel: (763) 514-4000

Fax: (763) 514-4879

Medtronic USA, Inc.
Toll-free: 1 (800) 328-2518
(24-hour technical support for
physicians and medical professionals)



Medtronic

Fold down to reveal footnotes