UPDATING A PACEMAKER TO CORRECT THE DUAL CHAMBER IPG CIRCUIT ERROR

This is a 14-step process. Please review these instructions to the last page.

- Identify the patient's implanted pacemaker model. This update applies to the following devices: Adapta[™], Versa[™], Sensia[™], Relia[™], Attesta[™], Sphera[™], and Vitatron[™] A, E, G, Q series.
- 2. Turn on the 2090 or Encore programmer.
- 3. Press "Cancel" on the Find Patient window.

	Find Patient Searching Place programming head over t	he device.		
	Patient Name	Device Type	Serial Number	55
		Searching		Select Model
				< Programmer
[C Allow wireless communication	Star	Cancel	Analyzer

4. Tap on "Programmer" icon on the main programmer screen.

ect Model				
View:	Dual chamber pacemakers	Tachyarrhythmia devices		
	Single chamber pacemakers	○ Other		
MEDTRO	NIC PACEMAKERS:		*	
Attest	ta ATDR01			
Attest	ta S ATDRS1			
Attest	ta L ATDRL1			Rol
Spher	a SPDR01			Select Mod
Spher	a L SPDRL1			a
Perce	pta Quad CRT-P MRI			
Perce	pta Quad CRT-P MRI - Read From Media	1		Print Queu
Perce	pta CRT-P MRI			
Perce	pta CRT-P MRI - Read From Media			
Seren	a Quad CRT-P MRI			
Seren	a Quad CRT-P MRI - Read From Media			A
Seren	a CRT-P MRI		-	3
				< Programm
-	štart	Nominals		0.00
	and the second s	vitatron NouoMed.	(A) testerate	Analyzer
Find Patien	t	vitatron NoyaMed.	GLifetech	

5. Tap on "Software".

	C Single chamber pacemakers		rythmia devices	
	· Single chamber pacemakers	○ Other	Preferences	
MEDTRON	C PACEMAKERS:		Time and Date	
2.001T.000T	ATDR01		Artifact Detection	
	S ATDRS1			Æ
	L ATDRL1		Software	4
	SPDR01 L SPDRL1		Demonstrations	Select
	a Quad CRT-P MRI		Programmer Profile	Æ
	a Quad CRT-P MRI - Read From Media			Print Q
Percept	a CRT-P MRI		SessionSync Status	
	a CRT-P MRI - Read From Media		SessionSync Network Configuration	
	Quad CRT-P MRI		RemoteView Network Configuration	200
	Quad CRT-P MRI - Read From Media			
Serena	CRT-P MRI	-	Network Configuration	< Progra
St	art	Nominal	Is. Other Software	000
			Tools	00
nd Patient.	A Medtronic	vitatron	Licensing	Analy

6. Search for the patient's pacemaker model.

Model	Software Versi	on	
Attesta ATDR01	8.2	1	
Attesta ATSR01	8.2	-	
Attesta L ATDRL1	8.2		
Attesta S ATDRS1	8.2		62
Auto ID Update	8.7		Select M
ate History Update Name	Time of Upo	date	Print Qu
		2	B
Install from Medtronic	Install from Media	Uninstall Software	< Program

7. Verify the software version is 8.2 or higher for the patient's implanted pacemaker model.

If the software version is less than 8.2, stop and contact your Medtronic representative to update the programmer.

WARNING

If the programmer is running a software version less than 8.2:

- DO NOT run EP Study; and
- **DO NOT** program <u>any</u> parameters under "Clinician Selected..." in the Data Collection Setup window.

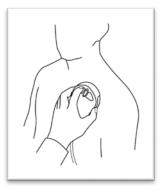
Either action will delete the circuit error correction update if the device was previously updated, and the patient will be susceptible to circuit error.

tware on This Pro ision Release: 20						
Model			Software Ve	ersion		
Spectrax SXT Sphera L SPDRL Sphera SPDR01 Sphera SPSR01 Symbios	8420, 8422, 1 7005, 7006	8423	8.2 8.2 8.2 8.2 v45		- - -	
pdate History						Select Model
Update Name Time of Update				Print Queue		
Install from Medtronic Install from Media Uninstall Software						
Find Patient	(A)	Medtronic	vitatron	NoyoMed.	@Lifetech	Analyzer

8. Tap on "Find Patient".

Soft	ware on This Progr	ammer					
Vis	ion Release: 2090	2.11					
	Model			Software V	ersion		
	Spectrax SXT Sphera L SPDRL1	8420, 8422,	3423	v45 8.2		<u> </u>	
	Sphera SPDR01			8.2			
	Sphera SPSR01			8.2			52
	Symbios	7005, 7006		v45		<u> </u>	Select Model
Up	late History						a
	Update Name			Time of	Updat	te	Print Queue
2						*	1 millioueue
						*	1110
	,						
	Install from Medtr	ronic	Insta	ll from Media		Uninstall Software	< Programmer
			1				
F	ind Patient	A	Medtronic	vitatron	n	oyoMed. ()Lifetech	Analyzer

9. Place the programming head over the patient's pacemaker.



10. Tap on "Start" when the programmer has detected the patient's pacemaker.

-	Find Patient	
	Searching .	
	Select patient then Start.	
	Patient Name Device Type Serial Number	
		Select Model
	Sphera SPDR01	
		Print Queue
		< Programmer
	Start Cancel	
ſ		Analyzer

11. Wait for the interrogation to complete.

Note: Initial interrogation can take up to 2 minutes as the pacemaker downloads the circuit error correction update. Subsequent interrogations will proceed normally.

Quick Look II 22-Apr-2019		Last Session: 19-Apr-2019 @	Checklist
Remaining Longevity 4 years (minimum: 3 years)	Mode Lower Rate Upper Track Rate	DDDR 50 ppm 120 ppm	.]] <data< th=""></data<>
	0.0)%	Params
	0.0 0.0	0%	CTests
	Observations		<pre>Keports</pre>
			< Petient
	ogation 76%	End Session	Session

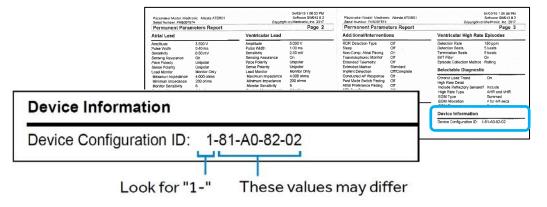
12. Tap on the Parameters icon.

Quick Look II 22-Apr-2019		Last Session: 19-Apr-2019 @	Checklist
Remaining Longevity 4 years (minimum: 3 years) Last Measured	Mode Lower Rate Upper Track Rate	DDDR 50 ppm 120 ppm	< Data
Impedance (chms) A 521 ohms >2,000 - 1,000 - 500 -	Pacing AS-VS AS-VP AP-VS AP-VP Observations	≥ 0.0% 0.0% 0.0% 100.0%	Params Params C Tests C Reports
Apr-10 Oct-10 Apr-19 More	gate	∠ End Session	< Patient

13. Print the Parameters Report.

Parameter	rs - Ther	ару					Checklist
Modes/Rates		Atrial	Lead	Ventricu	Ventricular Lead		
Mode	DDDR		Amplitude	5.000 V	Amplitude	5.000 V	
Mode Swite	ch	Off	Pulse Width	0.40 ms	Pulse Width	0.40 ms	< Data
Lower Rate	e	50 ppm	Sensitivity	0.50 mV	Sensitivity	2.80 mV	
Upper Trac	:k	120 ppm	Pace Polarity	Bipolar	Pace Polarity	Bipolar	Params
Upper Sen	sor	120 ppm	Sense Polarity	Bipolar	Sense Polarity	Bipolar	
💅 Rate R	🕫 Rate Response		Capture	Off	Capture	Off	< Tests
	Intrinsic/AV		Refractory	/Blanking	Additional	Features	
Intrinsic A	Intrinsic Activation		PVARP	310 ms	Additional Feature	s	< Reports
Paced AV		150 ms	PVAB	180 ms			-
Sensed AV	/	120 ms	[Ğ
Save Get		TherapyGuide	Undo		OGRAM	< Patient	
		_	·······				
🔶 Em	ergency		Interrog	ate	End	Session	< Session

14. Verify the "Device Configuration ID" at the bottom of the Parameters Report starts with "1-".



If it starts with "1-", the pacemaker has been updated successfully. No further action is required.

Otherwise, continue to the next page

The Device Configuration ID does not appear	The Device Configuration ID starts with "???-"
 Reprint the Parameters Report from the Parameters screen. If the report still does not display Device Configuration ID, the programmer has not been updated to a software version required to complete the pacemaker update. Contact your Medtronic representative or Technical Services to ensure the programmer software for the patient's device has been updated to at least the software version 8.2. 	 Reprint the Parameters Report and recheck the Device ConfigurationID. If "???-" is still present, the pacemaker was unable to successfully receive the update. Contact your Medtronic representative or Technical Services for additional instructions.

Otherwise, which of the two options below apply to the report?