

Model # Serial #			Department/Loca Performed By					
Туре			Annual \square					
Man	uual	Mode Access						
		nual Mode Access						
	a.	Record customer-selected MANUAL ACCESS co	nfiguration					
Exte	erio	Physical Inspection						
2.	Ext	erior physical inspection		Pass	Fail	NA	Comments	
	a.	Device exterior damage (general)						
	b.	Check device for loose/rattling hardware						
	C.	Check for damaged or missing rubber feet						
	d.	Inspect battery pins as specified in the Service Ma	anual					
	e.	Check if battery pins were replaced during this se	rvicing event		Battery P	ins Repla	ced	
	f.	Inspect therapy cable pins and connector						
	g.	Confirm spring button on therapy connector is fun	ctional					
	h.	Inspect device connectors for damage						
	i.	Inspect keypads and overlays for damage						
	j.	Check device accessories for condition and expira	ation dates					
	k.	Inspect carrying case and carrying strap for dama	ge					
3.	Dev	rice Setup						
	a.	Insert two fully charged Li-ion batteries into the de	evice					
	b.	Install a roll of 100-mm printer paper						
	c.	Connect therapy cable or standard paddles to the	device		Complet	ed		
4.	Pov	ver On/Self –Test						
	a.	All items are conforming						
5.	Aux	kiliary Power Switching (if Auxiliary Power Conne	ector is installed)					
	a.	Battery icons appear but neither is highlighted.						



6.	Po	wer Source Management				
	a.	Confirm battery status indicator switching				
7.	Us	er Test and Date/Time Verification				
	a.	Confirm device passes User Test				
	b.	Confirm Time and Date are correct				
Mis	scell	aneous Function				
8.		mperature Calibration Check Test (if Temp option is installed)	Pass	Fail	NA	Comments
	c.	Confirm Temperature Cal Check complete				
9.	CO	2 Tests (if CO2 option is installed)				
	a.	Confirm change in vacuum reading is less than 15 mmHg				
	b.	Record CO2 concentration reading is 5.0% ±0.5%	Measured Value			
10.	NIE	BP Tests (if NIBP option is installed)	value			
	a.	Confirm LEAKAGE TEST OK message				
	b.	Confirm 50 mmHg readings agree within ±20 mmHg				
	C.	Confirm 150 mmHg readings agree within ±20 mmHg				
	d.	Confirm the overpressure switch activates at 290 ±20 mmHg				
11.	25	mm/s Speed Printer Test				
	a.	Confirm printer test strip and CHECK PRINTER message				
12.	12.	5 mm/s Speed Printer Test				
	a.	Confirm printer 12.5 mm/s test strip				
13.	Ke	ypad Test				
	a.	Confirm all control text boxes are highlighted and TEST COMPLETE message appears				
14.	Au	dio Test				
	a.	Confirm voice messages and tones are clear and not distorted				
15.	Inv	rasive Blood Pressure Verification (if IP option is installed)				
	a.	Confirm P1 pressure channel zero				
	b.	Record P1 pressure reading of 250 ±8 mmHg	Measured Value			
	C.	Record P1 pressure reading of 100 ±5 mmHg	Measured Value			
	d.	Record P1 pressure reading of 20 ±3 mmHg	Measured Value			

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€	€.	Record P1 pressure reading of -20 ±3 mmHg	Measured Value			
f		Confirm P2 pressure channel zero				
g	g.	Record P2 pressure reading of 250 ±8 mmHg	Measured Value			
ŀ	٦.	Record P2 pressure reading of 100 ±5 mmHg	Measured Value			
i.		Record P2 pressure reading of 20 ±3 mmHg	Measured Value			
j		Record P2 pressure reading of -20 ±3 mmHg	Measured Value			
16. \$	Sp(O2/SpCO/SpMet Tests	Pass	Fail	NA	Comments
a	а.	Confirm SpO2 reading is between 50% and 100% (if SpO2 is installed)				
t	ο.	Confirm SpCO reading is between 0% and 40% (if SpCO is installed)				
C	Э.	Confirm SpMet reading is between 0% and 15% (if SpMet is installed)				
17. F	Red	cord Operating Data (Optional)				
Total	S	hocks:	Fault Mess	sages		
			Power Cyc	cle Count		
360J	Sh	nocks	Pacing Co	unt		
			Shock Cou	ınt		
225-3	325	5J Shocks	Power On	Time		
			Printer On	Time		
0-200)J :	Shocks	SPO2 Ope (if installed)	erating Time)		
			CO2 Oper (if installed))		
			NIBP Inflat (if installed)			
ECG	Pe	erformance Testing				
18. E	EC	G Tests (12-lead, 3-lead or 5-wire ECG tests)	Pass	Fail	NA	Comments
a	а.	Confirm LEADS-OFF screen messages				
k	ο.	Record Lead I gain (tolerance 25 to 31 mm)	Measured Value			
C	Э.	Record Lead II gain (tolerance 36 to 44 mm)	Measured Value			
C	d.	Record Lead V1/C gain (tolerance 36 to 44 mm) (5-wire, 12-lead)	Measured Value			

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	e.	Record Lead V2 gain (tolerance 36 to 44 mm) (12-lead)	Measured Value			
	f.	Record Lead V3 gain (tolerance 36 to 44 mm) (12-lead)	Measured Value			
	g.	Record Lead V4 gain (tolerance 36 to 44 mm) (12-lead)	Measured Value			
	h.	Record Lead V5 gain (tolerance 36 to 44 mm) (12-lead)	Measured Value			
	i.	Record Lead V6 gain (tolerance 36 to 44 mm) (12-lead)	Measured Value			
19.	EC	G Analog Output (optional, perform as required)				
	a.	Record signal amplitude (tolerance 0.90 to 1.10 Vp-p)	Measured Value			
Def	ibril	lator/Pacing Testing				
		ivered Energy Test	Pass	Fail	NA	Comments
20.	a.	10 J — Record delivered energy (tolerance 9.1 to 10.9 J)	Measured Value			
	b.	200 J - Record delivered energy (tolerance 186.0 to 214.0 J)	Measured Value			
	c.	360 J - Record delivered energy (tolerance 334.9 to 384.9 J)	Measured Value			
21.	Cha	arge Time to 360J Test				
	a.	Confirm device charges to 360 J in less than 10 seconds	Measured Value			
22.	Syr	nchronous Cardio version Test				
	a.	Record Sync delay (maximum 60ms)	Measured Value			
23.	The	erapy ECG Characteristics	value			
	a.	Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm)	Measured Value			
	b.	Fast-Restore baseline in 0.5 seconds	ualue			
	c.	Fast-Restore amplitude restored is >50% within 3 seconds				
		·			П	
	d.	Positive R-wave test				
24.	Sta	ndard Paddles User Test (N/A for QUIK-COMBO-only device)	_	_	_	
	a.	Confirm device passes test				
25.	Pac	cer Option Characteristics				
	a.	Confirm leads-off detection				
	b.	10 mA- Record current (tolerance 5 to 15 mA)	Measured Value			
	c.	100 mA – Record current (tolerance 91 to 109 mA)	Measured Value			
	d.	200 mA – Record current (tolerance 181 to 219 mA)	Measured Value			
	e.	Record pulse width (tolerance 19.2 to 20.8 ms)	Measured Value			



26.	Pat	ient Impedance Test				
	a.	Verify the PADDLES LEADS OFF message is not visible (50 ohms)				
	b.	Verify the device displays PADDLES LEADS OFF message (370 ohms)				
	c.	Verify the PADDLES LEADS OFF message is not visible (238 ohms)				
Dat	a Ma	anagement				
27.		etooth Wireless Technology (if Bluetooth option is installed) Verify Bluetooth Pairing Successful				
Lea	kag	e Current Test				
28.	Lea	ıkage Test Battery Powered				
	a.	ECG Direct Applied Part at 120 or 240 VAC	Pass	Fail	NA	Comments
		Polarity NC/RM , Condition Normal , (5 μA - 45 μA)	Measured Value			
	b.	Therapy Direct Applied Part at 120 or 240 VAC				
		Polarity NC/RM , Condition Normal , $(5 \mu A - 2625 \mu A)$	Measured Value			
	C.	SpO2 Direct Applied Part at 120 or 240 VAC	Magazzad			
		Polarity NC/RM, Condition Normal, (5 μ A - 2625 μ A)	Measured Value			
29.	Leal	kage Test AC Powered Device at 120VAC (If Aux power is installed	1)			
	a.	Direct Equipment Leakage at 120 VAC				
		Polarity NC/RM, Condition Open Earth, (15 μA - 270 μA)	Measured Value			
	b.	ECG Direct Applied Part at 120 VAC				
		Polarity NC/RM , Condition Normal , (5 μA - 45 μA)	Measured Value			
	C.	Therapy Direct Applied Part at 120 VAC	Manageman			
		Polarity NC/RM, Condition Normal, (5 μ A - 2625 μ A)	Measured Value			
	d.	SpO2 Direct Applied Part at 120 VAC				
		Polarity NC/RM , Condition Normal , (5 μA - 2625 μA)	Measured Value			
30.	Leal	kage Test AC Powered Device at 240 VAC (if Aux power is installed	d)			
	a.	Direct Equipment Leakage at 240 VAC	Measured			
		Polarity NC/RM, Condition Open Earth, (15 μ A - 450 μ A)	Value			
	b.	ECG Direct Applied Part at 240 VAC	Magazza			
		Polarity NC/RM , Condition Normal , (5 μA - 45 μA)	Measured Value			

Performance Inspection Procedure (PIP) Checklist



a.	Maintenance prompt disabled or reset	Comple	Completed	
31. LIFEPAK 15 Maintenance Instruction		Pass		
	Polarity NC/RM , Condition Normal , (5 μA - 2625 μA)	Measured Value	—	
d.	SpO2 Direct Applied Part at 240 VAC			
	Polarity NC/RM , Condition Normal , (5 μA - 2625 μA)	Measured Value	—	
C.	Therapy Direct Applied Part at 240 VAC			

Comments: