

			-	partment/Location					
Serial # Type of		ost-Repair	 1	Performed By Annual	Date				
i ypc oi		ost Repair	•	Allidai 🗅		Date			
Manual Mode Access									
	inual Mode Access Record customer-selec	ted MANUAL	. ACCESS cor	nfiguration					
Exterior Physical Inspection									
2. Ext	erior physical inspection	1			Pass	Fail	NA	Comments	
a.	Device exterior damag	je (general)							
b.	Check device for loose	e/rattling hard	ware						
C.	Check for damaged or	missing rubb	er feet						
d.	Inspect battery pins as	specified in	the Service M	anual					
e.	Check if battery pins w	ere replaced	during this se	rvicing event		Battery P	ins Repla	ced	
f.	Inspect therapy cable	pins and con	nector						
g.	Confirm spring button	on therapy co	onnector is fun	octional					
h.	Inspect device connec	tors for dama	ge						
i.	Inspect keypads and o	verlays for da	amage						
j.	Check device accesso	ries for condi	tion and expir	ation dates					
k.	Inspect carrying case a	and carrying	strap for dama	age					
3. Dev	vice Setup								
a.	Insert two fully charged	d Li-ion batte	ries into the de	evice					
b.	Install a roll of 100-mm	n printer pape	r						
C.	Connect therapy cable	or standard	paddles to the	e device		Complet	ed		
4. Pow	ver On/Self –Test								
a.	All items are conforming	ng							
5. Auxi	liary Power Switching (if	Auxiliary Po	wer Connecto	r is installed)					_
a.	Battery icons appear b	ut neither is l	nighlighted.						



6. Power 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						
Miscel	aneous Function						
8. Ter	nperature Calibration Check Test (if Temp option is	Pass	Fail	NA	Comments		
installe	d)	_	_	_			
a.	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					
10. NIE	BP Tests (if NIBP option is installed)	Value					
a.	Confirm LEAKAGE TEST OK message						
u.	Committee Lear Cremoscage						
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						
	PPV 6SHH@ULQ HIU HW						
D	Confirm printer test strip and CHECK PRINTER message						
Б	Committee test strip and one of Tributer message		J				
	PPV 6SHHG3ULQ MU W						
D	Confirm printer 12.5 mm/s test strip						
.H	\SD G HVW						
D	Confirm all control text boxes are highlighted and TEST COMPLETE message appears						
14. A u	dio Test						
a.	Confirm voice messages and tones are clear and not distorted						
15. Inv	15. Invasive 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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	e.	Record P1 pressure reading of -20 ±3 mmHg	Measured Value			
	f.	Confirm P2 pressure channel zero				
	g.	Record P2 pressure reading of 250 ±8 mmHg	Measured Value			
	h.	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.	Confirm SpO2 reading is between 50% and 100% (if SpO2 is installed)				
	b.	Confirm SpCO reading is between 0% and 40% (if SpCO is installed)				
	C.	Confirm SpMet reading is between 0% and 15% (if SpMet is installed)				
17.	Re	cord Operating Data (Optional)				
<u>Tot</u>	al S	hocks:	Fault Mess	sages		
			Power Cyc	cle Count		
360	J Sh	nocks	Pacing Co	unt		
			Shock Cou	unt		
225	-325	5J Shocks	Power On	Time		
			Printer On	Time		
0-20)))	Shocks	SPO2 Ope (if installed	erating Time)		
			CO2 Oper (if installed			
			NIBP Inflat (if installed			
EC	G Pe	erformance Testing				
18.	EC	G Tests (12-lead, 3-lead or 5-wire ECG tests)	Pass	Fail	NA	Comments
	a.	Confirm LEADS-OFF screen messages				
	b.	Record Lead I gain (tolerance 25 to 31 mm)	Measured Value			
	C.	Record Lead II gain (tolerance 36 to 44 mm)	Measured Value			
	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				
20.	Del	ivered Energy Test	Pass	Fail	NA	Comments
	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			
		·	Va.uo			
22.	Syr	nchronous Cardio version Test	Value			
22.	Syr a.	<u> </u>	Measured Value			
	a.	nchronous Cardio version Test	Measured			
	a.	nchronous Cardio version Test Record Sync delay (maximum 60ms)	Measured		0	
	a.	nchronous Cardio version Test Record Sync delay (maximum 60ms) erapy ECG Characteristics	Measured Value		_	
	a. The	nchronous Cardio version Test Record Sync delay (maximum 60ms) erapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm)	Measured Value Measured Value			
	a. The	nchronous Cardio version Test Record Sync delay (maximum 60ms) erapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds	Measured Value Measured Value	_		
23.	a. The	Record Sync delay (maximum 60ms) Perapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds	Measured Value Measured Value	_		
23.	a. The	Record Sync delay (maximum 60ms) Perapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test	Measured Value Measured Value	_		
23. 24.	a. The a. b. c. d. Sta a.	Record Sync delay (maximum 60ms) Perapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test Indard Paddles User Test (N/A for QUIK-COMBO-only device)	Measured Value			
23. 24.	a. The a. b. c. d. Sta a.	Record Sync delay (maximum 60ms) Perapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test Indard Paddles User Test (N/A for QUIK-COMBO-only device) Confirm device passes test	Measured Value			
23. 24.	a. The a. b. c. d. Sta a.	Record Sync delay (maximum 60ms) Parapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test Indard Paddles User Test (N/A for QUIK-COMBO-only device) Confirm device passes test Cer Option Characteristics	Measured Value			
23. 24.	a. The a. b. c. d. Sta a. Pace	Record Sync delay (maximum 60ms) Parapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test Indard Paddles User Test (N/A for QUIK-COMBO-only device) Confirm device passes test Cer Option Characteristics Confirm leads-off detection	Measured Value Measured Value Measured Value Measured Measured			
23. 24.	a. The a. b. c. d. Sta a. Pac a. b.	Record Sync delay (maximum 60ms) Perapy ECG Characteristics Record ECG paddle lead gain (tolerance 1mV = 36 to 44 mm) Fast-Restore baseline in 0.5 seconds Fast-Restore amplitude restored is >50% within 3 seconds Positive R-wave test Indard Paddles User Test (N/A for QUIK-COMBO-only device) Confirm device passes test Cer Option Characteristics Confirm leads-off detection 10 mA— Record current (tolerance 5 to 15 mA)	Measured Value Measured Value Measured Value Measured Value Measured Value Measured Measured			



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	а Ма	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 μ A - 2625 μ A)	Measured Value			
	C.	SpO2 Direct Applied Part at 120 or 240 VAC				
		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	l)			
	a.	Direct Equipment Leakage at 120 VAC	Manager			
		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				
		Polarity NC/RM , Condition Normal , $(5 \mu A - 2625 \mu A)$	Measured Value			
	d.	SpO2 Direct Applied Part at 120 VAC				
		Polarity NC/RM, Condition Normal, $(5 \mu A - 2625 \mu A)$	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	Mossured			
		Polarity NC/RM, Condition Open Earth, (15 μ A - 450 μ A)	Measured Value			
	b.	ECG Direct Applied Part at 240 VAC				
		Polarity NC/RM , Condition Normal , (5 μA - 45 μA)	Measured Value			

Performance Inspection Procedure (PIP) Checklist



a.	Maintenance prompt disabled or reset	Comple	eted	
31. LIF	EPAK 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: