

| Model #<br>Serial # |      |   | Department/loc<br>Performed by |      |       |             |
|---------------------|------|---|--------------------------------|------|-------|-------------|
|                     |      | e of PIP Post-repair ☐  | Annual 🗌                       |      | Date  |             |
| Ex                  | teri | or physical and basic function inspection                     |                                | Pass | Fail  | Comments    |
| 1.                  |      | ose Hardware Inspection                                       |                                |      |       |             |
|                     | a.   | Loose or rattling hardware                                    |                                |      |       |             |
| 2.                  | Ins  | spect Front of DUT  |                                |      |       |             |
|                     | a.   | Broken or scratched display                                   |                                |      |       |             |
|                     | b.   | Broken or cracked keypad                                      |                                |      |       |             |
|                     | c.   | Broken or cracked bezel                                       |                                |      |       |             |
|                     | d.   | Missing USB cover   |                                |      |       |             |
| 3.                  | Ins  | spect Right Side of DUT                                       |                                |      |       |             |
|                     | a.   | Damage, cracks or case separation.                            |                                |      |       |             |
|                     | b.   | ECG connection port damage free                               |                                |      |       |             |
|                     | c.   | ECG cable works properly                                      |                                |      |       |             |
|                     | d.   | Batteries work properly in both battery wells.                |                                |      |       |             |
| 4.                  | Ins  | spect Top of DUT  |                                |      |       |             |
|                     | a.   | Damage, cracks or case separation.                            |                                |      |       |             |
|                     | b.   | Damage to handle  |                                |      |       |             |
|                     | c.   | Therapy connects and releases properly                        |                                |      |       |             |
| 5.                  | Ins  | spect Bottom of DUT   |                                |      |       |             |
|                     | a.   | Damage or cracks to the skid plate                            |                                |      |       |             |
| 6.                  | Ins  | pect Parameter Module of DUT                                  |                                |      |       |             |
|                     | a.   | Damage, cracks or case separation.                            |                                |      |       |             |
|                     | b.   | Damage or missing CO2 cover                                   |                                |      |       |             |
|                     | c.   | Damaged or missing USB cover                                  |                                |      |       |             |
|                     | d.   | Accessories and connect and release properly                  |                                |      |       |             |
| 7.                  | De   | vice setup  | Complete                       |      |       | Comments    |
|                     | a.   | Insert two fully functional LP35 batteries into the DU        | T                              | Dogg | Fail  | Comments    |
| 8.                  |      | wer on/self - test  |                                | Pass | raii  | Comments    |
|                     | a.   | All items are conforming                                      |                                |      | Fail  | Comments    |
| 9.                  |      | Applicate Power indicator was Croon                           |                                | Pass | ran 🗖 | comments    |
|                     | a.   | Auxiliary Power indicator was Green 0124-002 AD ©2024 Stryker |                                |      |       | Page 1 of 6 |



|     | b.    | Battery icons appear but neither is highlighted  |                   |       |       |    |          |
|-----|-------|--|-------------------|-------|-------|----|----------|
|     | c.    | Battery icons appear and one is highlighted  |                   |       |       |    |          |
| 10. | Pow   | ver source management  |                   | Pass  | Fail  |    | Comments |
|     | a.    | Confirm battery status indicator switching   |                   |       |       |    |          |
| 11. | Mod   | lem functional test  |                   | Pass  | Fail  | NA | Comments |
|     | a.    | Confirm DUT recognizes a modem has been installed  |                   |       |       |    |          |
| 12. | Prin  | ter functional test  |                   | Pass  | Fail  | NA | Comments |
|     | a.    | Confirm DUT recognizes a printer has been installed  |                   |       |       |    |          |
| 13. | SHII  | FT check   |                   | Pass  | Fail  | NA | Comments |
|     | a.    | Confirm device passes SHIFT check  |                   |       |       |    |          |
|     | b.    | Confirm device passes SHIFT check with Printer (option   | al)               |       |       |    |          |
| 14. | Auto  | test and date/time verification  |                   | Pass  | Fail  |    | Comments |
|     | a.    | Confirm device passes Auto Test  |                   |       |       |    |          |
|     | b.    | Confirm Time and Date are correct  |                   |       |       |    |          |
| 15. | USB   | functional test  |                   | Pass  | Fail  |    | Comments |
|     |       | Confirm USB enumerates for each USB Port (Show mode plates)  |                   |       |       |    |          |
|     |       | •  |                   |       |       |    |          |
|     |       | y testing  |                   | Pass  | Fail  |    | Comments |
| 16  |       | cient impedance test   |                   | 1 435 | 1 411 |    |          |
|     | a.    | Verify the device displays PADDLES LEADS<br>OFF message (349 ohms)   |                   |       |       |    |          |
|     | b.    | Verify the PADDLES LEADS OFF message is not visible (50 ohms)  |                   |       |       |    |          |
|     | c.    | Verify the PADDLES LEADS OFF message is not visible (254 ohms)   |                   |       |       |    |          |
|     | d.    | Verify the PADDLES LEADS OFF message is visible (open condition)   |                   |       |       |    |          |
| 17  | . Del | livered energy test  |                   | Pass  | Fail  |    | Comments |
|     | a.    | 10 J – Record delivered energy (tolerance 9.1 to 10.9 J)   | Measured<br>Value | _ 🗖   |       |    |          |
|     | b.    | 50 J – Record delivered energy (tolerance <b>46.6 to 53.4</b> J. If <b>TCP</b> energy calibration was performed, tolerance <b>47.5 to 52.5J</b> )                | Measured<br>Value | - 🗆   |       |    |          |
|     | c.    | 200 J – Record delivered energy (tolerance <b>186.0</b> to <b>214.0</b> J. If <b>TCP</b> energy calibration was performed, tolerance <b>195</b> to <b>205</b> J) | Measured<br>Value |       |       |    |          |
|     | d.    | 360 J – Record delivered energy (tolerance <b>334.8 to 385.2</b> J. If <b>TCP</b> energy calibration was performed, tolerance <b>351 to 369</b> J)               | Measured<br>Value |       |       |    |          |
|     | e.    | Was a successful Defibrillator Energy Calibration performed?   |                   | Yes   | No    | NA |          |

## **Performance Inspection Procedure (PIP) Checklist**



**Note**: if TCP energy calibration is performed, delivered energy test will have tighter limit per 3340123, Specification, Field Test, Manual PIP-TCP, LIFEPAK 35

| 18. | Cha                  | arge time to 360J test   |   | Pass  | Fail |    | Comments |   |
|-----|----------------------|--|---|-------|------|----|----------|---|
|     | a.                   | Confirm device charges to 360 J in less than 10 seconds  |   |       |      |    |          | - |
| 19. | Syı                  | nchronous cardioversion test   |   | Pass  | Fail |    | Comments |   |
|     | a.                   | Record Sync delay (maximum 60ms)   | Measured Valuems  |       |      |    |          | - |
| 20. | Pac                  | cer option characteristics   |   | Pass  | Fail |    | Comments |   |
|     | a.                   | Confirm leads-off detection  |   |       |      |    |          | _ |
|     | b.                   | 10 mA- Record current (tolerance 5 to 15 mA)   | Measured<br>Value   |       |      |    |          |   |
|     | c.                   | 100 mA – Record current (tolerance 90 to 110 mA)   | Measured<br>Value   |       |      |    |          |   |
|     | d.                   | 200 mA – Record current (tolerance 180 to 220 mA)  | Measured<br>Value   |       |      |    |          |   |
|     | e.                   | Record pulse width (tolerance 19.2 to 20.8 ms)   | Measured<br>Value   |       |      |    |          | _ |
| 21. | Th                   | erapy ECG characteristics  |   | Pass  | Fail |    | Comments |   |
|     | a.                   | Positive R-wave test   |   |       |      |    |          | _ |
|     | b.                   | Record ECG paddle lead gain (tolerance 1mV = 38 to 42 mm)  | Measured<br>Value   |       |      |    |          | _ |
|     |                      |  |   |       |      |    |          |   |
| EC  | G pe                 | erformance testing   |   |       |      |    |          |   |
|     |                      | erformance testing<br>G tests (3, 5, 12 or 15-LEAD ECG tests)  |   | Pass  | Fail | NA | Comments |   |
|     |                      |  |   | Pass  | Fail | NA | Comments |   |
|     | EC                   | <b>G tests</b> (3, 5, 12 or 15-LEAD ECG tests)   | Measured<br>Value   | _     |      | NA | Comments |   |
|     | ECO<br>a.            | G tests (3, 5, 12 or 15-LEAD ECG tests)  Confirm LEADS-OFF screen messages   |   |       |      | NA | Comments |   |
|     | a.<br>b.             | G tests (3, 5, 12 or 15-LEAD ECG tests)  Confirm LEADS-OFF screen messages  Record Lead II gain (tolerance 38 to 42 mm)  Record Lead I gain (tolerance 26 to 30 mm)  Record Lead III gain (tolerance 11 to 13 mm)  | Value<br>Measured   | _<br> |      | NA | Comments |   |
|     | a.<br>b.<br>c.       | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm)  | Value<br>Measured<br>Value<br>Measured                      | _<br> |      | _  | Comments |   |
|     | a.<br>b.<br>c.<br>d. | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm) (13- wire, 10-wire, 5-wire) Record Lead V2 gain (tolerance 36 to 44 mm)  | Value<br>Measured<br>Value<br>Measured<br>Value<br>Measured |       |      |    | Comments |   |
|     | a.<br>b.<br>c.<br>d. | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm) (13- wire, 10-wire, 5-wire) Record Lead V2 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V3 gain (tolerance 36 to 44 mm)   | Value   |       |      |    | Comments |   |
|     | a. b. c. d. e.       | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm) (13- wire, 10-wire, 5-wire) Record Lead V2 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V3 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm)   | Value   |       |      |    | Comments |   |
|     | e. g.                | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm) (13- wire, 10-wire, 5-wire) Record Lead V2 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V3 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V5 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V5 gain (tolerance 36 to 44 mm) | Value   |       |      |    | Comments |   |
|     | e. f. h.             | Confirm LEADS-OFF screen messages Record Lead II gain (tolerance 38 to 42 mm) Record Lead II gain (tolerance 26 to 30 mm) Record Lead III gain (tolerance 11 to 13 mm) (3-wire) Record Lead V1/C gain (tolerance 36 to 44 mm) (13- wire, 10-wire, 5-wire) Record Lead V2 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V3 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm) (13- wire, 10- wire) Record Lead V4 gain (tolerance 36 to 44 mm) (13- wire, 10- wire)  | Value   |       |      |    | Comments |   |

## **Performance Inspection Procedure (PIP) Checklist**

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|      | l.  | Record Lead V8/A2 gain (tolerance 36 to 44 mm) (13- wire)                | Measured<br>Value |      |      |      |          |
|------|-----|--|-------------------|------|------|------|----------|
|      | m.  | Record Lead V9/A3 gain (tolerance 36 to 44 mm) (13- wire)                | Measured<br>Value |      |      |      |          |
|      |     |  |                   |      |      |      |          |
| Pati | ent | parameter function   |                   |      | Б.11 | DI A | Commonto |
| 23.  | SpC | O <sub>2</sub> /SpCO/SpMet Tests   |                   | Pass | Fail | NA   | Comments |
|      | a.  | Confirm SpO <sub>2</sub> reading is between 50% and 100%                 |                   |      |      |      |          |
|      | 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)      |                   |      |      |      |          |
| 24.  |     | <b>mperature sensor verification</b> (if Temp option is talled)          |                   | Pass | Fail | NA   | Comments |
|      | a.  | Record T1 reading of 25C (tolerance 24.8C to 25.2C)                      | Measured<br>Value |      |      |      |          |
|      | b.  | Record T1 reading of 45C (tolerance 44.8C to 45.2C)                      | Measured<br>Value |      |      |      |          |
|      | c.  | Record T2 reading of 25C (tolerance 24.8C to 25.2C)                      | Measured<br>Value | _ 🗖  |      |      |          |
|      | d.  | Record T2 reading of 45C (tolerance 44.8C to 45.2C)                      | Measured<br>Value |      |      |      |          |
|      | e.  | Record T3 reading of 25C (tolerance 24.8C to 25.2C)                      | Measured<br>Value |      |      |      |          |
|      | f.  | Record T3 reading of 45C (tolerance 44.8C to 45.2C)                      | Measured<br>Value |      |      |      |          |
|      |     | asive blood pressure verification (if IP option is called)               |                   | Pass | Fail | NA   | Comments |
| á    | a.  | Confirm P1 pressure channel zero   |                   |      |      |      |          |
| ł    | ).  | Record P1 pressure reading of – 30 mmHg (tolerance -34 mmHg to -26 mmHg) | Measured<br>Value |      |      |      |          |
| (    |     | Record P1 pressure reading of 20 mmHg (tolerance 16 mmHg to 24 mmHg)     | Measured<br>Value |      |      |      |          |
| (    |     | Record P1 pressure reading of 100mmHg (tolerance 96 mmHg to 104 mmHg)    | Measured<br>Value |      |      |      |          |
| 6    | е.  | Record P1 pressure reading of 300mmHg (tolerance 288 mmHg to 312 mmHg)   | Measured<br>Value |      |      |      |          |
| f    |     | Confirm P2 pressure channel zero   |                   |      |      |      |          |
| ٤    |     | Record P2 pressure reading of -30 mmHg (tolerance -34 mmHg to -26 mmHg)  | Measured<br>Value |      |      |      |          |
| ł    |     | Record P2 pressure reading of 20 mmHg (tolerance 16 mmHg to 24 mmHg)     | Measured<br>Value |      |      |      |          |
| i    |     | Record P2 pressure reading of 100 mmHg (tolerance 96 mmHg to 104 mmHg)   | Measured<br>Value |      |      |      |          |
| j    |     | Record P2 pressure reading of 300 mmHg (tolerance 288 mmHg to 312 mmHg)  | Measured<br>Value |      |      |      |          |



|     | k.              | Confirm P3 pressure channel zero   |                   |             |      |    |          |
|-----|-----------------|--|-------------------|-------------|------|----|----------|
|     | l.              | Record P3 pressure reading of -30 mmHg (tolerance -34 mmHg to -26 mmHg)  | Measured<br>Value |             |      |    |          |
|     | m.              |  | Measured<br>Value |             |      |    |          |
|     | n.              | Record P3 pressure reading of 100 mmHg (tolerance 96 mmHg to 104 mmHg)   | Measured<br>Value |             |      |    |          |
|     | 0.              | Record P3 pressure reading of 300 mmHg (tolerance 288 mmHg to 312 mmHg)  | Measured<br>Value |             |      |    |          |
|     |                 | 5 0,   |                   |             |      |    |          |
| 26. | CO <sub>2</sub> | tests  |                   | Pass        | Fail |    | Comments |
|     | a.              | $CO_2$ Leakage Test: Confirm change in vacuum reading is less than 15 mmHg   |                   |             |      |    |          |
|     | b.              | CO <sub>2</sub> Calibration Check Test: Record CO <sub>2</sub>   | Measured<br>Value |             |      |    |          |
|     |                 | concentration reading is 5.0% ±0.82%   |                   | Yes         | No   | NA | Comments |
|     | c.              | Was a successful CO <sub>2</sub> Calibration performed?  |                   |             |      |    |          |
| 27. | NIB             | P Tests  |                   | Pass        | Fail |    | Comments |
|     | a.              | NIBP Leakage Test: Confirm the message: Service<br>command "NIBP Leakage Check" has been<br>completed successfully |                   |             |      |    |          |
|     | b.              | NIBP Calibration Test: Confirm 50 mmHg readings agree within ±3 mmHg   |                   |             |      |    |          |
|     | c.              | NIBP Leakage Test: Confirm 150 mmHg readings agree within ±3 mmHg  |                   |             |      |    |          |
|     | d.              | Confirm the overpressure switch activates at 290 ±20 mmHg  |                   |             |      |    |          |
| 28. | Rec             | ord Operating Data (Optional) Total Shocks:  | Comments          |             |      |    |          |
|     | a.              | Pacing Count   |                   |             |      |    |          |
|     | b.              | 0-200J Shock Count   |                   |             |      |    |          |
|     | c.              | 225-325J Shock Count   |                   | <del></del> |      |    |          |
|     | d.              | 360J Shocks  |                   |             |      |    |          |
| D   | ata I           | Management   |                   |             |      |    |          |
| 2   |                 | luetooth Wireless Technology (if Bluetooth option available)   |                   | Pass        | Fail | NA | Comments |
|     | a.              |  |                   |             |      |    |          |



| 30. |           | FI Wireless Technology (If WIFI Option is<br>nilable)                                     |                   | Pass | Fail | NA | Comments |
|-----|-----------|---|-------------------|------|------|----|----------|
|     | a.        | Verify WIFI Network connection Successful   |                   |      |      |    |          |
| Lea | ıkag      | e current test  |                   |      |      |    |          |
| 31. | Lea<br>VA | akage test AC powered device at 120VAC or 240<br>C  |                   | Pass | Fail |    | Comments |
|     | a.        | Direct Equipment Leakage Polarity NC/RM, Condition Open Earth, (15 $\mu$ A - 490 $\mu$ A) | Measured<br>Value |      |      |    |          |
|     | b.        | ECG Direct Applied Part Polarity NC/RM, Condition Normal, (5 $\mu A$ - $50~\mu A)$        | Measured<br>Value |      |      |    |          |
|     | c.        | Therapy Direct Applied Part Polarity NC/RM, Condition Normal, (5 $\mu A$ - $5000~\mu A)$  | Measured<br>Value |      |      |    |          |
|     | d.        | SpO2 Direct Applied Part Polarity NC/RM, Condition Normal, (5 $\mu A$ - 5000 $\mu A)$     | Measured<br>Value |      |      |    |          |
|     |           |   |                   |      |      |    |          |
| 32. | LIF       | EPAK 35 maintenance instruction   | Completed         |      |      |    | Comments |
|     | a.        | Maintenance prompt disabled or reset  |                   |      |      |    |          |