

Record Number					
Drawing Title					
Drawing Part Number	090703	Rev		SN	
<input checked="" type="checkbox"/> All redlines require written concurrence from Quality and Engineering prior to proceeding.					
Test Equipment Log					
G or Record #	Test Equipment Description	Calibration Due Date		QA Approval	
	DMM			QA	
	Micro-Ohm Meter			QA	
	Insulation Tester			QA	
	TC Meter			QA	
				QA	
				QA	

Formatting Template: 000151.H. Template for Test Traveler

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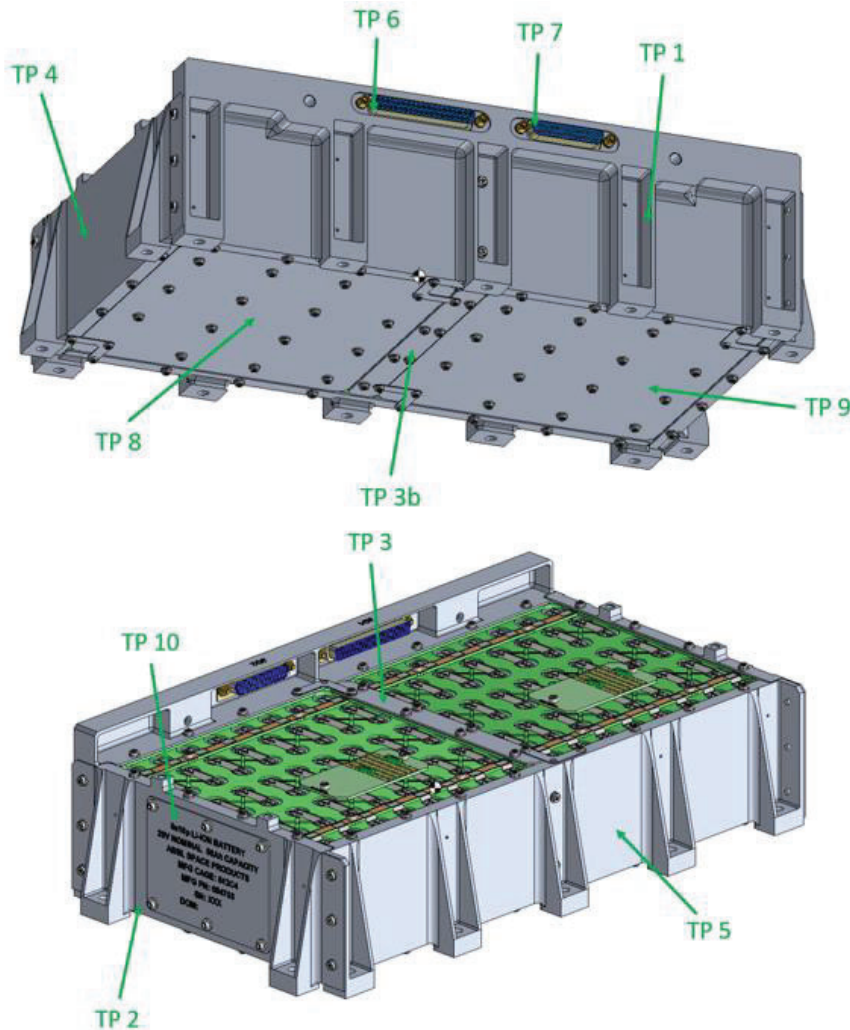
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Record Number				
Drawing Title	8s16p Battery Assembly			
Drawing Part Number		Rev		SN
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Task #	ACTIVITY (Include all necessary cross-references)	Operator		
		Init.	Date	
Preparation for Test				
NOTE	If the battery is left to be inoperative overnight, consult the PE or TE to verify it is safe to leave all harnessing connected. Cover unit until testing resumes.	--	--	
10	Read this entire traveler prior to proceeding. If there are any steps that are unclear or unfamiliar, please consult with the appropriate person to obtain any further information or training deemed necessary. The operator is not expected to perform work with which he or she is uncomfortable.	TT		
20	Ensure that the calibration status of all the necessary equipment will not expire prior to the completion of this work instruction.	TT		
30	<p>Record the Master Traveler Document Number and Step Number at which this test is being performed (i.e., Mid-Build, Build Close-Out, Post-Mechanical, Post-TVAC).</p> <p>Master Traveler Document Number: _____</p> <p>Master Traveler Step Number: _____</p> <p>Test Engineer to verify against the Master Traveler that the correct test is being performed and all prior steps are complete.</p>	TT ----- TE	-----	
40	<p>Record the battery part number and serial number below:</p> <p>P/N: _____</p> <p>S/N: _____</p>	TT		

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Ground Paths						
50	<p>Reference diagram for Step 60.</p> 				N/A	N/A

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60	Ensure battery ground paths by using the Micro-Ohm Meter from the Test Equipment Log. Record the Resistance Reading to two figures, such as X.X mΩ, and indicate if Pass or Fail below.						TT			
	Test Point	Description		Test Point	Description	Resistance Reading (mΩ)			Pass Criteria	Pass/Fail
	TP 1	Connector Side Wall	To	TP 2	End Wall Data Plate				< 2.5 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 3	Center Support*				< 2.5 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 4	End Wall				< 2.5 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 6	J01 Conn. Harness				< 2.5 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 7	J02 Conn. Harness				< 2.5 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 8	Thermal Plate 1				< 25 mΩ	Pass/Fail
	TP 1	Connector Side Wall	To	TP 9	Thermal Plate 2				< 25 mΩ	Pass/Fail
	TP 5	Side Wall	To	TP 2	End Wall Data Plate				< 2.5 mΩ	Pass/Fail
	TP 5	Side Wall	To	TP 3	Center Support*				< 2.5 mΩ	Pass/Fail
	TP 5	Side Wall	To	TP 4	End Wall				< 2.5 mΩ	Pass/Fail
	TP 5	Side Wall	To	TP 8	Thermal Plate 1				< 25 mΩ	Pass/Fail
	TP 5	Side Wall	To	TP 9	Thermal Plate 2				< 25 mΩ	Pass/Fail
	TP 2	End Wall Data Plate	To	TP 10	Battery Data Plate**				< 10 mΩ	Pass/Fail
* For Mid-Build Functional use TP 3. For Final-Build and Test Campaign use TP 3b. ** N/A this TP if performing Mid-Build Functional as Data Plate is not installed.										

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Task #	ACTIVITY (Include all necessary cross-references)				Operator							
					Init.	Date						
70	Record harness and breakout box part number, serial number, record number, and due date of next verification below.				TT ----- QA	-----						
	Harness Description	P/N	S/N	Record #			Due Date					
	37-Pin Breakout Box Harness	800726										
	25-Pin Breakout Box Harness	800725										
	37-Pin Breakout Box	100175										
	25-Pin Breakout Box											
Ensure that harness verification has been performed within the prescribed period. Ensure that the cables are in good condition by performing a visual inspection of the harnesses to be used for any form of physical damage to the cables or connectors.												
80	Ensure connector savers are installed.				TT							
90	QA to witness connector saver mates. Install connector savers. Record the tool's gauge number, calibration due date, and torque value.				TT ----- QA	-----						
	Torque screw locks to 3.0 in-lbs.		<table border="1"> <tr> <td>G #</td> <td></td> </tr> <tr> <td>Due Date</td> <td></td> </tr> <tr> <td>Torque (in-lbs.)</td> <td></td> </tr> </table>				G #		Due Date		Torque (in-lbs.)	
	G #											
	Due Date											
Torque (in-lbs.)												
Capture in the Mate/De-Mate Log.												

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100	QA to witness connector mating. Make the following connections from the battery to the breakout box. Ensure that harness is mated to the breakout-box <i>prior</i> to being mated to the battery.	TT ----- QA	-----										
	<input type="checkbox"/> Connect J01 to the 37-Pin Breakout Box via harness 800726. <ul style="list-style-type: none"> ○ Label the breakout box “#1”. <input type="checkbox"/> Connect J02 to the 25-Pin Breakout Box via harness 800725. <ul style="list-style-type: none"> ○ Label the breakout box “#2”. 												
Power Continuity Check													
110	Use the DMM from the Test Equipment Log to probe the breakout box. Record the voltage reading and indicate if Pass or Fail below. Pass Criteria: 24.0 - 33.6 V	TT											
	<table border="1"> <tr> <th>Connector-Pin</th> <th></th> <th>Connector-Pin</th> <th>Voltage Reading (V)</th> <th>Pass/Fail</th> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-11</td> <td></td> <td>Pass/Fail</td> </tr> </table>			Connector-Pin		Connector-Pin	Voltage Reading (V)	Pass/Fail	J01-1	To	J01-11		Pass/Fail
	Connector-Pin				Connector-Pin	Voltage Reading (V)	Pass/Fail						
J01-1	To	J01-11		Pass/Fail									

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120	<p>Ensure continuity between the terminals listed below using the DMM from the Test Equipment Log by probing to the breakout box. Record the Resistance Reading to one decimal place, such as X.X Ω, and indicate if Pass or Fail below.</p> <p>Pass Criteria: Resistance Reading < 1 Ω</p> <table border="1"> <thead> <tr> <th>Connector-Pin</th> <th></th> <th>Connector-Pin</th> <th>Resistance Reading (Ω)</th> <th>Pass/Fail</th> </tr> </thead> <tbody> <tr> <td colspan="5">Positive Circuit Continuity</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-2</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-3</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-4</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-5</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-6</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-7</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-8</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-9</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-20</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-21</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-22</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-23</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-24</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-25</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-26</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-27</td> <td></td> <td>Pass/Fail</td> </tr> <tr> <td>J01-1</td> <td>To</td> <td>J01-28</td> <td></td> <td>Pass/Fail</td> </tr> </tbody> </table>				Connector-Pin		Connector-Pin	Resistance Reading (Ω)	Pass/Fail	Positive Circuit Continuity					J01-1	To	J01-2		Pass/Fail	J01-1	To	J01-3		Pass/Fail	J01-1	To	J01-4		Pass/Fail	J01-1	To	J01-5		Pass/Fail	J01-1	To	J01-6		Pass/Fail	J01-1	To	J01-7		Pass/Fail	J01-1	To	J01-8		Pass/Fail	J01-1	To	J01-9		Pass/Fail	J01-1	To	J01-20		Pass/Fail	J01-1	To	J01-21		Pass/Fail	J01-1	To	J01-22		Pass/Fail	J01-1	To	J01-23		Pass/Fail	J01-1	To	J01-24		Pass/Fail	J01-1	To	J01-25		Pass/Fail	J01-1	To	J01-26		Pass/Fail	J01-1	To	J01-27		Pass/Fail	J01-1	To	J01-28		Pass/Fail	TT	
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In-Line Resistor Verification								
140	Verify the In-Line Resistors by using the DMM and probing to the breakout box. Record the Resistance Reading to the ones-digit, such as XX,XXX Ω, and indicate if Pass or Fail below. Pass Criteria: Resistance Reading between 9,990 Ω and 10,010 Ω				TT			
	Connector-Pin		Connector-Pin	Resistance Reading (Ω)			Pass/Fail	
	J01-1	To	J02-2				Pass/Fail	
	J01-1	To	J02-14				Pass/Fail	
	J01-11	To	J02-12				Pass/Fail	
	J01-11	To	J02-25				Pass/Fail	
	Isolation							
150	Ensure isolation of the connector contacts to the battery chassis using the Insulation Tester and DMM from the Test Equipment Log to probe against the chassis location and breakout box. <input type="checkbox"/> Record the Resistance Reading for the DMM to one decimal place, such as XX.X MΩ or "OL" if Open Circuit. <input type="checkbox"/> Set Insulation Tester to 100 V for 60 seconds or until resistance measurement is stable (minimum of 10 Sec). <input type="checkbox"/> If the Resistance Reading of the Insulation Tester is > 10 MΩ or "OL" then write a checkmark (✓). Pass Criteria: DMM Resistance > 10 MΩ or "OL" Circle Pass/Fail results in the table below All resistances must pass before proceeding.				TT			
	Location A		Location B	DMM			ISO	Pass/Fail
	TP1	To	J01-1					Pass/Fail
	TP1	To	J01-10					Pass/Fail
	TP1	To	J02-1					Pass/Fail

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	TP1	To	J02-3			Pass/Fail		
	TP1	To	J02-4			Pass/Fail		
	TP1	To	J02-5			Pass/Fail		
	TP1	To	J02-6			Pass/Fail		
	TP1	To	J02-7			Pass/Fail		
	TP1	To	J02-8			Pass/Fail		
	TP1	To	J02-9			Pass/Fail		
	TP1	To	J02-10			Pass/Fail		
	TP1	To	J02-11			Pass/Fail		
	TP1	To	J02-13			Pass/Fail		
	TP1	To	J02-15			Pass/Fail		
	TP1	To	J02-16			Pass/Fail		
	TP1	To	J02-17			Pass/Fail		
	TP1	To	J02-18			Pass/Fail		
	TP1	To	J02-19			Pass/Fail		
	TP1	To	J02-24			Pass/Fail		

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Task #	ACTIVITY (Include all necessary cross-references)				Operator																																																																																																			
					Init.	Date																																																																																																		
160	Ensure isolation throughout the battery assembly using the Insulation Tester and DMM from the Test Equipment Log to probe against test points on the breakout box.				TT																																																																																																			
	<div> <input type="checkbox"/> Record the Resistance Reading for the DMM in the "DMM" column to one decimal place, such as XX.X MΩ, or "OL" if Open Circuit. </div> <div> <input type="checkbox"/> Set Insulation Tester to 100 V for 60 seconds or until resistance measurement is stable (minimum of 10 Sec). </div> <div> <input type="checkbox"/> Record the resistance reading for the Insulation Tester in the "ISO" column. If > 10 MΩ or "OL", then write a checkmark (✓). </div>																																																																																																							
	Pass Criteria: Resistance > 10 MΩ or "OL". All resistances must pass before proceeding.																																																																																																							
	<table border="1"> <thead> <tr> <th colspan="5">Isolation Table</th> </tr> <tr> <th>Connector-Pin</th> <th></th> <th>Connection</th> <th>DMM</th> <th>ISO</th> </tr> </thead> <tbody> <tr><td>J01-01</td><td>To</td><td>J01-10</td><td></td><td></td></tr> <tr><td>J01-01</td><td>To</td><td>J02-07</td><td></td><td></td></tr> <tr><td>J01-01</td><td>To</td><td>J02-08</td><td></td><td></td></tr> <tr><td>J01-01</td><td>To</td><td>J02-09</td><td></td><td></td></tr> <tr><td>J01-01</td><td>To</td><td>J02-10</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-02</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-03</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-04</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-05</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-06</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-07</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-08</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-09</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-10</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-11</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-13</td><td></td><td></td></tr> <tr><td>J02-01</td><td>To</td><td>J02-15</td><td></td><td></td></tr> </tbody> </table>						Isolation Table					Connector-Pin		Connection	DMM	ISO	J01-01	To	J01-10			J01-01	To	J02-07			J01-01	To	J02-08			J01-01	To	J02-09			J01-01	To	J02-10			J02-01	To	J02-02			J02-01	To	J02-03			J02-01	To	J02-04			J02-01	To	J02-05			J02-01	To	J02-06			J02-01	To	J02-07			J02-01	To	J02-08			J02-01	To	J02-09			J02-01	To	J02-10			J02-01	To	J02-11			J02-01	To	J02-13			J02-01	To	J02-15					
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Record Number								
Drawing Title		8s16p Battery Assembly						
Drawing Part Number				Rev			SN	
<input checked="" type="checkbox"/> All redlines require written concurrence from Quality and Engineering prior to proceeding.								
Task #	ACTIVITY (Include all necessary cross-references)						Operator	
							Init.	Date
	J02-01	To	J02-16					
	J02-01	To	J02-17					
	J02-01	To	J02-18					
	J02-01	To	J02-19					
	J02-01	To	J02-24					
	J02-03	To	J02-02					
	J02-03	To	J02-04					
	J02-03	To	J02-05					
	J02-03	To	J02-06					
	J02-03	To	J02-07					
	J02-03	To	J02-08					
	J02-03	To	J02-09					
	J02-03	To	J02-10					
	J02-03	To	J02-11					
	J02-03	To	J02-13					
	J02-03	To	J02-15					
	J02-03	To	J02-16					
	J02-03	To	J02-17					
	J02-03	To	J02-18					
	J02-03	To	J02-19					
	J02-03	To	J02-24					
	J02-04	To	J02-02					
	J02-04	To	J02-05					
	J02-04	To	J02-06					
	J02-04	To	J02-07					
	J02-04	To	J02-08					
	J02-04	To	J02-09					
	J02-04	To	J02-10					
	J02-04	To	J02-11					
	J02-04	To	J02-13					
	J02-04	To	J02-15					

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Drawing Part Number				Rev			SN	
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Task #	ACTIVITY (Include all necessary cross-references)						Operator	
							Init.	Date
	J02-04	To	J02-16					
	J02-04	To	J02-17					
	J02-04	To	J02-18					
	J02-04	To	J02-19					
	J02-04	To	J02-24					
	J02-05	To	J02-02					
	J02-05	To	J02-06					
	J02-05	To	J02-07					
	J02-05	To	J02-08					
	J02-05	To	J02-09					
	J02-05	To	J02-10					
	J02-05	To	J02-11					
	J02-05	To	J02-13					
	J02-05	To	J02-15					
	J02-05	To	J02-16					
	J02-05	To	J02-17					
	J02-05	To	J02-18					
	J02-05	To	J02-19					
	J02-05	To	J02-24					
	J02-06	To	J02-02					
	J02-06	To	J02-07					
	J02-06	To	J02-08					
	J02-06	To	J02-09					
	J02-06	To	J02-10					
	J02-06	To	J02-11					
	J02-06	To	J02-13					
	J02-06	To	J02-15					
	J02-06	To	J02-16					
	J02-06	To	J02-17					
	J02-06	To	J02-18					
	J02-06	To	J02-19					

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Record Number							
Drawing Title	8s16p Battery Assembly						
Drawing Part Number	090703	Rev		SN			
<input checked="" type="checkbox"/> All redlines require written concurrence from Quality and Engineering prior to proceeding.							
Task #	ACTIVITY (Include all necessary cross-references)					Operator	
						Init.	Date
	J02-06	To	J02-24				
	J02-07	To	J02-08				
	J02-07	To	J02-09				
	J02-07	To	J02-10				
	J02-08	To	J02-09				
	J02-08	To	J02-10				
	J02-09	To	J02-10				
	J02-11	To	J02-02				
	J02-11	To	J02-07				
	J02-11	To	J02-08				
	J02-11	To	J02-09				
	J02-11	To	J02-10				
	J02-11	To	J02-13				
	J02-11	To	J02-15				
	J02-11	To	J02-16				
	J02-11	To	J02-17				
	J02-11	To	J02-18				
	J02-11	To	J02-19				
	J02-11	To	J02-24				
	J02-13	To	J02-02				
	J02-13	To	J02-07				
	J02-13	To	J02-08				
	J02-13	To	J02-09				
	J02-13	To	J02-10				
	J02-13	To	J02-15				
	J02-13	To	J02-16				
	J02-13	To	J02-17				
	J02-13	To	J02-18				
	J02-13	To	J02-19				
	J02-13	To	J02-24				
	J02-15	To	J02-02				

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Record Number								
Drawing Title		8s16p Battery Assembly						
Drawing Part Number				Rev			SN	
<input checked="" type="checkbox"/> All redlines require written concurrence from Quality and Engineering prior to proceeding.								
Task #	ACTIVITY (Include all necessary cross-references)						Operator	
							Init.	Date
	J02-15	To	J02-07					
	J02-15	To	J02-08					
	J02-15	To	J02-09					
	J02-15	To	J02-10					
	J02-15	To	J02-16					
	J02-15	To	J02-17					
	J02-15	To	J02-18					
	J02-15	To	J02-19					
	J02-15	To	J02-24					
	J02-16	To	J02-02					
	J02-16	To	J02-07					
	J02-16	To	J02-08					
	J02-16	To	J02-09					
	J02-16	To	J02-10					
	J02-16	To	J02-17					
	J02-16	To	J02-18					
	J02-16	To	J02-19					
	J02-16	To	J02-24					
	J02-17	To	J02-02					
	J02-17	To	J02-07					
	J02-17	To	J02-08					
	J02-17	To	J02-09					
	J02-17	To	J02-10					
	J02-17	To	J02-18					
	J02-17	To	J02-19					
	J02-17	To	J02-24					
	J02-18	To	J02-02					
	J02-18	To	J02-07					
	J02-18	To	J02-08					
	J02-18	To	J02-09					
	J02-18	To	J02-10					

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Drawing Part Number				Rev			SN	
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Task #	ACTIVITY (Include all necessary cross-references)						Operator	
							Init.	Date
	J02-18	To	J02-19					
	J02-18	To	J02-24					
	J02-19	To	J02-02					
	J02-19	To	J02-07					
	J02-19	To	J02-08					
	J02-19	To	J02-09					
	J02-19	To	J02-10					
	J02-19	To	J02-24					
	J02-24	To	J02-02					
	J02-24	To	J02-07					
	J02-24	To	J02-08					
	J02-24	To	J02-09					
	J02-24	To	J02-10					

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Drawing Part Number			Rev		SN			
<input checked="" type="checkbox"/> All redlines require written concurrence from Quality and Engineering prior to proceeding.								
Task #	ACTIVITY (Include all necessary cross-references)				Operator			
					Init.	Date		
Thermistor Resistance Measurement								
170	Verify thermistors by measuring the resistance between the terminals listed below using the DMM and probing to the breakout box. Record the Thermometer details in the Test Equipment Log at the beginning of the Traveler. Subtract test lead resistance if necessary. Pass Criteria: Thermistor Temperature within $\pm 3^{\circ}\text{C}$ of Ambient Temperature				TT ----- TE/PE	-----		
	Connector - Pin		Connector - Pin	Thermistor Resistance [Ω]			*Thermistor Temperature ($^{\circ}\text{C}$)	Pass/Fail
	J02-7	To	J02-20					Pass/Fail
	J02-8	To	J02-21					Pass/Fail
	J02-9	To	J02-22					Pass/Fail
	J02-10	To	J02-23					Pass/Fail
	Ambient Temperature ($^{\circ}\text{C}$)							
* To be filled out by Project or Test Engineer. Temperature obtained from Table V of NASA GSFC Thermistor Standard (S-311-P18) document. Use the 10 k Ω column.								
Final Verification of Traveler Results								
180	Test Engineer to review test data and test traveler results.				TE			
190	Project Engineer to verify minimum pass criteria is met through recorded values in the traveler.				PE			
200	QA to witness connector de-mating. Disconnect battery from the breakout boxes and install dust caps on the battery connectors.				TT ----- QA	-----		
210	QA to verify that all steps have been signed off and all applicable NCR's have been raised.				QA			
220	Sign off the upper-level procedure as indicated in Step 30 of this traveler.				TT			

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