

CM & LM ECP's

Had wrc difference Summary

Front



ITEM DESCRIPTION	DIFFERENCES BETWEEN QUALIFICATION ITEMS AND FLIGHT HARDWARE	REMARKS																																																	
<p>INERTIAL MEASUREMENT UNIT (IMU)</p> <p>Qualification Item: Block II Level Vibration, 2018601-071, S/N 3</p> <p>All other Block II Environments, 2018601-051, S/N 3</p> <p>Flight Item: ECP Incorporation -051 -071 -191 -201 -211 -221 -231</p> <table border="0"> <tr><td>306</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>500</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>587</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>605</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>653</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> <tr><td>678</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>688</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td></tr> </table>	306	X	X	X	X	X		500		X	X	X	X	X	587			X	X	X	X	605			X	X	X	X	653			X	X		X	678			X	X	X	X	688					X	X	<p><u>ECP 306</u> - Addition of harness cable clamp to IMU cover.</p> <p><u>ECP 500</u> - Replacement of capacitor, P/N 1010317-001, with P/N 1008848 in PIP preamplifier application, which becomes P/N 2007060-021 as a consequence. Also provides for epoxy resin conformal coating on all solder terminals.</p> <p><u>ECP 587</u> - Advancement of 25 IRIG from 2021500-051 to -071 configuration. Change incorporates new end cap - aluminum base, turret terminals, longer connector mounting screws.</p> <p><u>ECP 605</u> - Removal of insulating blankets, P/N's 2018805 and 2018806, from IMU.</p> <p><u>ECP 653</u> - Change of stable member harness wiring to reduce IRIG preamplifier oscillations.</p> <p><u>ECP 678</u> - Lockwashers and C-7 adhesive added to IRIG connector mounting hardware.</p> <p><u>ECP 688</u> - Addition of capacitor P/N 1006777 across signal microsyn output terminals. IRIG's advanced to -111 configuration.</p>	<p><u>ECP 306</u> - Qualified by test.</p> <p><u>ECP 500</u> - Capacitor P/N 1008848 qualified at part level. AP-M-14177-N426.</p> <p><u>ECP 587</u> - Qualified by test at IRIG level.</p> <p><u>ECP 605</u> - Analytical thermal analysis indicated test not required. AP-M-17974-N1596.</p> <p><u>ECP 653</u> - Qualified by similarity.</p> <p><u>ECP 678</u> - Qualified by similarity.</p> <p><u>ECP 688</u> - Capacitor, P/N 1006777, qualified at part level. AP-M-13039-N186.</p> <p>IMU coolant hoses qualified as part of IMU qualification.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>
306	X	X	X	X	X																																														
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587			X	X	X	X																																													
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678			X	X	X	X																																													
688					X	X																																													
<p>ELECTRONIC DATA COUPLING UNIT (ECDU)</p> <p>Qualification Item: Block II Vibration only, 2007222-121</p> <p>Other Environments, 2007222-081, S/N 19</p> <p>Flight Item: ECP Incorporation -081 -121 -181 -191 -221 -231</p> <table border="0"> <tr><td>499</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>515</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>564</td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>603</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>609</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	499		X	X	X	X	X	515			X	X	X	X	564						X	603			X	X	X	X	609			X	X	X	X	<p><u>ECP 499</u> - Incorporation of module vibration damper plate between trays S and X.</p> <p><u>ECP 515</u> - Provides for individual selection of optimum resistance value in circuit position R-73, system coarse module; module part number advanced from 2007236-011 to -031.</p> <p><u>ECP 564</u> - Implementation of flight processing specifications, ND 1002359A and ND 1002358B, for logic integrated circuits.</p> <p><u>ECP 603</u> - Replacement of P/N 1010317-004 capacitors with P/N 1008900-24 counterpart in MSA and Quad Reject Module.</p> <p><u>ECP 609</u> - Circuit redesign of MSA and Quad Reject Module.</p> <ol style="list-style-type: none"> Diodes, CR 10, 11; P/N 1010385 removed. Resistor, R 140; P/N 1006750-12 added. Diode CR 13, P/N 1008815, replaced by P/N 1010372. Value of Resistor R-76, P/N 1006750, changed. <p><u>ECP 714</u> - Reduction of ECDU noise susceptibility by rerouting 1x resolver winding, read counter logic interconnect, and CDU reset lead in headers.</p>	<p><u>ECP 499</u> - Qualified by test. AP-M-16622-N1120.</p> <p><u>ECP 515</u> - Qualified by similarity.</p> <p><u>ECP 564</u> - Qualified by part test.</p> <p><u>ECP 603</u> - Capacitor, P/N 1008900, qualified at part level, based on results of evaluation test, 20-P-400.</p> <p><u>ECP 609</u> - Qualified by part test.</p> <p><u>ECP 714</u> - Qualified by similarity.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>														
499		X	X	X	X	X																																													
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<p>GUIDANCE COMPUTER (CGC)</p> <p>Qualification Item: 2003200-021, S/N RAY 16 (C1)</p> <p>Flight Item: ECP Incorporation 2003200 2003993</p> <table border="1" data-bbox="64 267 407 492"> <thead> <tr> <th></th> <th>-021</th> <th>-011</th> <th>-021</th> <th>-031</th> <th>-041</th> <th>-051</th> <th>-061</th> </tr> </thead> <tbody> <tr> <td>452</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>474</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>483</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>485</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>501/505</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>511</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>518</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>564</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>604</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>719</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>		-021	-011	-021	-031	-041	-051	-061	452		X	X	X	X	X	X	474		X	X	X	X	X	X	483								485	X	X	X	X	X	X	X	501/505	X	X	X	X	X	X	X	511	X	X	X	X	X	X	X	518		X	X	X	X	X	X	564				X			X	604			X	X	X	X	X	719						X	X	<p><u>ECP 452</u> - Replacement of Tray A Assembly, P/N 2003092-011, with -031 configuration, Wiring changes to permit operation with Auxiliary Computer Memory (ACM) and reduce noise signals.</p> <p><u>ECP 474</u> - Replacement of Test Connector Cover, P/N 2004115, with 2003099-011. New connector eliminates noise problems when GSE is not connected to the AGC.</p> <p><u>ECP 483</u> - Replacement of R36 with a P/N 1008815 Zener diode to preclude induced breakdown of sense amplifier devices. P/N 2003981 and 2003982-021 changed to -031.</p> <p><u>ECP 485</u> - Replacement of Power Supply Module, P/N 2008953-011, with P/N 2003887-011 configuration. Modified screening characteristics to better assure suitability of P/N 1006310 transistors for certain tight applications; eliminated of DSKY 28 V Regulator, and reduced value of R 43 from 5.1 K to 2.2 K ohms.</p> <p><u>ECP's 501 and 505</u> - Change of several modules via implementation of Flight Processing Specification ND 1002313 for transistors, P/N 1006323 (ECP 501), and ND 1002314 for diodes, and new diode P/N 1006399 (ECP 505). ECP 505 also includes replacement of P/N 1006751 diodes with P/N 1006399 because of channeling and surface instabilities.</p> <p><u>ECP 511</u> - Replacement of Tray B Assembly, P/N 2003093-011 with -021 configuration. Wiring changes to reduce cross coupling between Rope Inhibit wires and logic signal SCAFAL.</p> <p><u>ECP 518</u> - Tied 28 V ground to Power Supply Module header to reduce noise on 28 V COM line. Added circuit elements R48, R49, R50, C25, Q17 to Standby circuitry to obtain signal delays. Changed Power Supply Module P/N from 2003887 to 2003892-011.</p> <p><u>ECP 564</u> - Implementation of flight processing specifications - ND 1002358B - for logic integrated circuits, 1006321, 1006394. Only partially incorporated per waiver C-1089.</p> <p><u>ECP 604</u> - Incorporation of vibration damping paid in area of erasable memory module.</p> <p><u>ECP 719</u> - Changed the alarm module V-Fail level from 28 Vdc to 20 Vdc through nominal selection of resistor R3, P/N 1006750.</p>	<p><u>ECP 452</u> - Qualified by similarity.</p> <p><u>ECP 474</u> - Qualified by evaluation test.</p> <p><u>ECP 483</u> - Diode, P/N 1008815 qualified at part level by evaluation test.</p> <p><u>ECP 485</u> - Qualified by similarity.</p> <p><u>ECP 501/505</u> - Qualified by part test.</p> <p><u>ECP 511</u> - Qualified by evaluation test.</p> <p><u>ECP 518</u> - Qualified by evaluation test.</p> <p><u>ECP 564</u> - Qualified by part test.</p> <p><u>ECP 604</u> - Qualified by test. AP-M-20010-N3323.</p> <p><u>ECP 719</u> - Qualified by similarity.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>
	-021	-011	-021	-031	-041	-051	-061																																																																																			
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<p>ASTROEXTANT PASSIVE THERMAL PROTECTION SYSTEM (APTPS)</p> <p>Qualification Item: P/N 1021373-051</p> <p>Flight Item: P/N 1021373-051</p>	<p>There are no configuration differences between qualification item and flight item.</p> <p>External dust covers qualified as part of the APTPS.</p>	<p>AP-M-17481-N1444.</p> <p>Flight item qualified by test.</p>																																																																																								

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<p>DISPLAY AND KEYBOARD (DSKY)</p> <p>Qualification Item: 2003950-011, S/N 30</p> <p>Flight Items: ECP Incorporation 2003950 2003994 -011 -011 -021 -031 -041 -051</p> <p>419 X X X X 476 X X X X 479 X X X X 493 X X X X 494 X X X X 501 X X X X 504 X X X X 505 X X X X 641 X X 673 X X 735 X X 739 768</p>	<p>ECP 419 and 493 - Replacement of IDM modules, P/N 2003950-021, with -031 configuration, which incorporates P/N 1005001-2 and P/N 1005003-2 Filters Relays, and change of resistors R13 and R17.</p> <p>ECP 476 - Change Alarm Indicator Module, P/N 1006387-001 to -002, application of light diffusing paint to alarm indicator face to prevent outgassing.</p> <p>ECP 479 - Application of polytetrafluoroethylene coating to shaft of DSKY Pushbutton Switch Assembly.</p> <p>ECP 494 - Replacement of Front Housing Assembly, P/N 2003885-011, with P/N 2003949-021, product improvement change for ease of manufacturing.</p> <p>ECP's 501 and 505 - Change of several modules via implementation of Flight Processing Specification ND 1002313 for transistors, P/N 1006323 (ECP 501), and ND 1002314 for diodes, and new diode P/N 1006399 (ECP 505). ECP 505 also includes replacement of P/N 1006751 diodes with P/N 1006399 because of channeling and surface instabilities.</p> <p>ECP 504 - Implementation of FPS ND 1002341 for P/N's 1005001 and 1005003 relays.</p> <p>ECP 641 - Incorporation of aluminum pushbutton caps, glass overlays of Indicator Alarm Face (Fire Fix).</p> <p>ECP 673 - Incorporation of redesigned leaf spring in pushbutton cap housings.</p> <p>ECP 735 - Incorporates safety glass over I/L and E/L panels.</p> <p>ECP 739 - Incorporates additional legends in I/L panel.</p> <p>ECP 768 - Incorporates design change to increase safety margin of E/L displays.</p>	<p>ECP 419 - Qualified by test. Change was incorporated in Qualification Item via Raytheon Waiver C-888.</p> <p>ECP 476 - Qualified by evaluation test.</p> <p>ECP 479 - Qualified by evaluation test.</p> <p>ECP 494 - Qualified by similarity.</p> <p>ECP 501/505 - Qualified by part test.</p> <p>ECP 504 - Qualified by similarity.</p> <p>ECP 641 - Qualified by test, AP-M-19631-N3162.</p> <p>ECP 673 - Qualified by test, AP-M-19631-N3162.</p> <p>ECP 735 - Qualified by test, AP-M-19631-N3162.</p> <p>ECP 739 - Qualified by similarity.</p> <p>ECP 768 - Qualified by test, Flight item is qualified by test and by similarity to qualification item.</p>
<p>2003994 (Cont)</p> <p>-061 -071 -081 -091 -111 -121</p> <p>419 X X X X X X 476 X X X X X X 479 X X X X X X 493 X X X X X X 494 X X X X X X 501 X X X X X X 504 X X X X X X 505 X X X X X X 641 X X 673 X X 735 X X X X X X 739 X X X X 768 X X X X</p>		

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<p>PIPA ELECTRONICS ASSEMBLY (PEA)</p> <p>Qualification Item: 2007201-021, S/N 3</p> <p>Flight Item: ECP Incorporation</p> <table border="0" style="margin-left: 40px;"> <tr> <td></td> <td style="text-align: center;"><u>-021</u></td> <td style="text-align: center;"><u>-031</u></td> </tr> <tr> <td>620</td> <td></td> <td style="text-align: center;">X</td> </tr> </table>		<u>-021</u>	<u>-031</u>	620		X	<p><u>ECP 620</u> — Application of foil over exposed connector surfaces.</p>	<p><u>ECP 620</u> — Flammability test. AP-M-18508. Flight item qualified by test.</p>																													
	<u>-021</u>	<u>-031</u>																																			
620		X																																			
<p>POWER AND SERVO ASSEMBLY (PSA)</p> <p>Qualification Item: Humidity, 2007200-111, S/N 3 EMI, 2007200-081 All other environments, 2007200-061, S/N 3</p> <p>Flight Item: ECP Incorporation</p> <table border="0" style="margin-left: 40px;"> <tr> <td></td> <td style="text-align: center;"><u>-061</u></td> <td style="text-align: center;"><u>-081</u></td> <td style="text-align: center;"><u>-111</u></td> <td style="text-align: center;"><u>-151</u></td> </tr> <tr> <td>248</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td>461</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td>529</td> <td></td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td>572</td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>590</td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>621</td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> </table>		<u>-061</u>	<u>-081</u>	<u>-111</u>	<u>-151</u>	248	X	X	X	X	461		X	X	X	529			X	X	572				X	590				X	621				X	<p><u>ECP 248</u> — Replacement of Pulse Torque Power Amplifier, P/N 2007106, with redesigned P/N 2007166.</p> <p><u>ECP 461</u> — Modification of module 2007114 to -021 configuration; two P/N 1010392 diodes replaced by two P/N 1010370 devices.</p> <p><u>ECP 529</u> — Application of RTV 102 or RTV 109 about periphery of connector plates. Application of DC-4 grease about periphery and on top surface of connector arrays. Holes filled with RTV-11 moisture proofing.</p> <p><u>ECP 572</u> — Redesign of connector gaskets for enhanced sealing capability.</p> <p><u>ECP 590</u> — Removal of anticreep module, 2007124.</p> <p><u>ECP 621</u> — Application of foil over exposed connector encapsulant surfaces.</p>	<p><u>ECP 248</u> — Qualified by test. AP-M-16443-N1072, AP-M-17524-N1457.</p> <p><u>ECP 461</u> - Diode P/N 1010370 qualified at part level. AP-M-10815.</p> <p><u>ECP 529</u> — Qualified by test. AP-M-16443-N1072.</p> <p><u>ECP 572</u> — Qualified by similarity.</p> <p><u>ECP 590</u> — Qualified by similarity.</p> <p><u>ECP 621</u> — Qualified by Flammability test. AP-M-18508. Flight item qualified by test and by similarity to qualification item.</p>
	<u>-061</u>	<u>-081</u>	<u>-111</u>	<u>-151</u>																																	
248	X	X	X	X																																	
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<p>GUIDANCE AND NAVIGATION INDICATOR CONTROL (GNIC)</p> <p>Qualification Item: Vibration, EMI, ELS, 2014578-021, S/N 4</p> <p>All other environments, 2014578-011, S/N 4</p> <p>Flight Item: ECP Incorporation 20144578 2021290</p> <table border="1" data-bbox="396 360 668 381"> <tr> <td>-011</td> <td>-021</td> <td>-031</td> <td>-011</td> <td>-021</td> <td>-031</td> <td>-041</td> </tr> </table> <p>457 X X X X X X</p> <p>538 X X X X X</p> <p>569 (a) X X X X</p> <p>569 (b) X X</p> <p>569 R1 X X X</p> <p>725 X</p> <p>746</p> <p>754</p>	-011	-021	-031	-011	-021	-031	-041	<p><u>ECP 457</u> — Addition of protective coverings for panel switches to exclude foreign particles from switch mechanisms.</p> <p><u>ECP 538</u> — Replacement of reticle brightness potentiometer, P/N 1010916, with counterpart 1008932-1.</p> <p><u>ECP 569</u> —</p> <ol style="list-style-type: none"> 1. Panel redesign — flammability changes, EL lamps, and so on. 2. Star tracking circuitry. 3. R1, panel engraving filled in. <p><u>ECP 725</u> — Addition of Placards containing verb/noun and star data information.</p> <p><u>ECP 746</u> — Replacement of antirattle springs in Master Alarm Switch.</p> <p><u>ECP 754</u> — Provides for addition of interchangeable Verb/Noun lists.</p>	<p><u>ECP 457</u> — Qualified by test. AP-M-18626-N1841.</p> <p><u>ECP 538</u> — Qualified by test. AP-M-18626-N1841.</p> <p><u>ECP 569</u> — Qualified by test. Report EP8101.</p> <p><u>ECP 725</u> — Qualified by similarity.</p> <p><u>ECP 746</u> — Qualified by similarity.</p> <p><u>ECP 754</u> — Qualified by evaluation test.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>
-011	-021	-031	-011	-021	-031	-041			
<p>SIGNAL CONDITIONER ASSEMBLY (SCA)</p> <p>Qualification Item: 2007235-011, S/N 1</p> <p>Flight Item: ECP incorporation 2007234 or 2007235</p> <table border="1" data-bbox="434 702 535 723"> <tr> <td>-011</td> <td>-021</td> </tr> </table> <p>623 X</p>	-011	-021	<p>Operational Signal Conditioner P/N 2007234-011, differs from flight qualification configuration, P/N 2007235-011, only in PIPA supply module, P/N 2007244-011, which differs from its flight qualification counterpart (P/N 2007241-011) in that transformer, P/N 1010324, has replaced P/N 1010274 in one circuit position. The operational PIPA supply module eliminates IRIG temperature telemetry circuitry.</p> <p><u>ECP 623</u> — Incorporates wrapping of harness wires with aluminum tape.</p>	<p><u>ECP 623</u> — Flammability test, AP-M-18508.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>					
-011	-021								

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<p>OPTICS SHROUD ASSEMBLY</p> <p>Qualification Item: P/N 2021394-011</p> <p>Flight Item: P/N 2021394-011</p>	<p>There are no configuration differences between qualification item and flight item.</p>	<p>Flight item qualified by test. AP-M-18321-N1713.</p>
<p>RANGEFINDER</p> <p>Qualification Item: P/N 2013250, S/N 2</p> <p>Flight Item: P/N 2013250</p>	<p>ECP 764 — Provides for addition of a Rangefinder to Apollo G & N System. There are no configuration differences between qualification item and flight item.</p>	<p>Flight item qualified by test.</p>
<p>EYEPIECE STORAGE UNIT (ESU)</p> <p>Qualification Item: P/N 2021382-021, S/N AC-3</p> <p>Flight Item: P/N 2021382-021</p>	<p>There are no differences between qualification item and flight item. Eyepieces qualified as part of ESU with exception of ECP 753 — Addition of steel inserts to SXT Mirror Housing.</p> <p>Eyepiece dust covers qualified by test, in conjunction with the ESU/eyepiece qualification test. Report TR-1521.</p>	<p>Flight item qualified by test. AP-M-19332-N3039. Flight items qualified by test and by similarity to qualification item. AP-M-19332-N3039</p>
<p>COMPUTER FIXED MEMORY MODULE</p> <p>Qualification Item: P/N 2003960, S/N 30, 37 P/N 186962, S/N's 1, 5, 6, 7</p> <p>Flight Item: P/N 2003972</p>	<p>Difference between 2003960 and 2003972 is type of software program. Difference between 186962 and 2003972 is type of software program, plus 186962 configuration does not contain Silastic protection around diodes. ECP 766 — Provides a vacuum screen for all flight ropes.</p>	<p>Flight item qualified by test. AP-M-17235-N1361.</p>

ITEM DESCRIPTION	DIFFERENCES BETWEEN QUALIFICATION ITEMS AND FLIGHT HARDWARE	REMARKS																																																	
<p>INERTIAL MEASUREMENT UNIT (IMU)</p> <p>Qualification Item: Block II Level Vibration, 2018601-071, S/N 3</p> <p>All other Block II Environments, 2018601-051, S/N 3</p> <p>Flight Item: ECP Incorporation <u>-051 -071 -191 -201 -211 -221 -231</u></p> <table border="0"> <tr><td>306</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>500</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>587</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>605</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>653</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr> <tr><td>678</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>688</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td></tr> </table>	306	X	X	X	X	X		500		X	X	X	X	X	587			X	X	X	X	605			X	X	X	X	653			X	X		X	678			X	X	X	X	688					X	X	<p><u>ECP 306</u> - Addition of harness cable clamp to IMU cover.</p> <p><u>ECP 500</u> - Replacement of capacitor, P/N 1010317-001, with P/N 1008848 in PIP preamplifier application, which becomes P/N 2007060-021 as a consequence. Also provides for epoxy resin conformal coating on all solder terminals.</p> <p><u>ECP 587</u> - Advancement of 25 IRIG from 2021500-051 to -071 configuration. Change incorporates new end cap - aluminum base, turret terminals, longer connector mounting screws.</p> <p><u>ECP 605</u> - Removal of insulating blankets, P/N's 2018805 and 2018806, from IMU.</p> <p><u>ECP 653</u> - Change of stable member harness wiring to reduce IRIG preamplifier oscillations.</p> <p><u>ECP 678</u> - Lockwashers and C-7 adhesive added to IRIG connector mounting hardware.</p> <p><u>ECP 688</u> - Addition of capacitor P/N 1006777 across signal microsyn output terminals. IRIG's advanced to -111 configuration.</p>	<p><u>ECP 306</u> - Qualified by test.</p> <p><u>ECP 500</u> - Capacitor P/N 1008848 qualified at part level. AP-M-14177-N426.</p> <p><u>ECP 587</u> - Qualified by test at IRIG level.</p> <p><u>ECP 605</u> - Analytical thermal analysis indicated test not required. AP-M-17974-N1596.</p> <p><u>ECP 653</u> - Qualified by similarity.</p> <p><u>ECP 678</u> - Qualified by similarity.</p> <p><u>ECP 688</u> - Capacitor, P/N 1006777, qualified at part level. AP-M-13039-N186.</p> <p>IMU coolant hoses qualified as part of IMU qualification.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>
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605			X	X	X	X																																													
653			X	X		X																																													
678			X	X	X	X																																													
688					X	X																																													
<p>ELECTRONIC DATA COUPLING UNIT (ECDU)</p> <p>Qualification Item: Block II Vibration only, 2007222-121</p> <p>Other Environments, 2007222-081, S/N 19</p> <p>Flight Item: ECP Incorporation <u>-081 -121 -181 -191 -221 -231</u></p> <table border="0"> <tr><td>499</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>515</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>564</td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>603</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>609</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	499		X	X	X	X	X	515			X	X	X	X	564						X	603			X	X	X	X	609			X	X	X	X	<p><u>ECP 499</u> - Incorporation of module vibration damper plate between trays S and X.</p> <p><u>ECP 515</u> - Provides for individual selection of optimum resistance value in circuit position R-73, system coarse module; module part number advanced from 2007236-011 to -031.</p> <p><u>ECP 564</u> - Implementation of flight processing specifications, ND 1002359A and ND 1002358B, for logic integrated circuits.</p> <p><u>ECP 603</u> - Replacement of P/N 1010317-004 capacitors with P/N 1008900-24 counterpart in MSA and Quad Reject Module.</p> <p><u>ECP 609</u> - Circuit redesign of MSA and Quad Reject Module.</p> <ol style="list-style-type: none"> Diodes, CR 10, 11; P/N 1010385 removed. Resistor, R #40; P/N 1006750-12 added. Diode CR 13, P/N 1008815, replaced by P/N 1010372. Value of Resistor R-76, P/N 1006750, changed. <p><u>ECP 714</u> - Reduction of ECDU noise susceptibility by rerouting 1x resolver winding, read counter logic interconnect, and CDU reset lead in headers.</p>	<p><u>ECP 499</u> - Qualified by test. AP-M-16622-N1120.</p> <p><u>ECP 515</u> - Qualified by similarity.</p> <p><u>ECP 564</u> - Qualified by part test.</p> <p><u>ECP 603</u> - Capacitor, P/N 1008900, qualified at part level, based on results of evaluation test, 20-P-400.</p> <p><u>ECP 609</u> - Qualified by part test.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>														
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ITEM DESCRIPTION	DIFFERENCES BETWEEN QUALIFICATION ITEMS AND FLIGHT HARDWARE	REMARKS
<p>GUIDANCE COMPUTER (LGC)</p> <p>Qualification Item: 2003200-021, S/N RAY 16 (C1)</p> <p>Flight Item: ECP Incorporation 2003200 2003993 -021 -011 -021 -031 -041 -051 -061</p> <p>452 X X X X X X</p> <p>474 X X X X X X</p> <p>483</p> <p>485 X X X X X X</p> <p>501/505 X X X X X X</p> <p>511 X X X X X X</p> <p>518 X X X X X X</p> <p>564 X X X</p> <p>604 X X X X</p> <p>719 X X X</p>	<p><u>ECP 452</u> - Replacement of Tray A Assembly, P/N 2003092-011, with -031 configuration. Wiring changes to permit operation with Auxiliary Computer Memory (ACM) and reduce noise signals.</p> <p><u>ECP 474</u> - Replacement of Test Connector Cover, P/N 2004115, with 2003099-011. New connector eliminates noise problems when GSE is not connected to the AGC.</p> <p><u>ECP 483</u> - Replacement of R36 with a P/N 1008815 Zener diode to preclude induced breakdown of sense amplifier devices. P/N 2003981 and 2003992-021 changed to -031.</p> <p><u>ECP 485</u> - Replacement of Power Supply Module, P/N 2008953-011, with P/N 2003887-011 configuration. Modified screening characteristics to better assure suitability of P/N 1006310 transistors for certain tight applications; eliminated of DSKY 28 V Regulator, and reduced value of R 43 from 5.1 K to 2.2 K ohms.</p> <p><u>ECP's 501 and 505</u> - Change of several modules via implementation of Flight Processing Specification ND 1002313 for transistors, P/N 1006323 (ECP 501), and ND 1002314 for diodes, and new diode P/N 1006399 (ECP 505). ECP 505 also includes replacement of P/N 1006751 diodes with P/N 1006399 because of channeling and surface instabilities.</p> <p><u>ECP 511</u> - Replacement of Tray B Assembly, P/N 2003093-011 with -021 configuration. Wiring changes to reduce cross coupling between Rope Inhibit wires and logic signal SCAPAL.</p> <p><u>ECP 518</u> - Tied 28 V ground to Power Supply Module header to reduce noise on 28 V COM line. Added circuit elements R48, R49, R50, C25, Q17 to Standby circuitry to obtain signal delays. Changed Power Supply Module P/N from 2003887 to 2003892-011.</p> <p><u>ECP 564</u> - Implementation of flight processing specifications - ND 1002358B - for logic integrated circuits, 1006321, 1006394. Only partially incorporated per waiver C-1089.</p> <p><u>ECP 604</u> - Incorporation of vibration damping paid in area of erasable memory module.</p> <p><u>ECP 719</u> - Changed the alarm module V-Fall level from 28 Vdc to 20 Vdc through nominal selection of resistor R3, P/N 1006750.</p>	<p><u>ECP 452</u> - Qualified by similarity.</p> <p><u>ECP 474</u> - Qualified by evaluation test.</p> <p><u>ECP 483</u> - Diode, P/N 1008815 qualified at part level by evaluation test.</p> <p><u>ECP 485</u> - Qualified by similarity.</p> <p><u>ECP 501/505</u> - Qualified by part test.</p> <p><u>ECP 511</u> - Qualified by evaluation test.</p> <p><u>ECP 518</u> - Qualified by evaluation test.</p> <p><u>ECP 564</u> - Qualified by part test.</p> <p><u>ECP 604</u> - Qualified by test, AP-M-20010-N3323.</p> <p><u>ECP 719</u> - Qualified by similarity. Flight item qualified by test and by similarity to qualification item.</p>

ITEM DESCRIPTION	DIFFERENCES BETWEEN QUALIFICATION ITEMS AND FLIGHT HARDWARE	REMARKS																																																																																																																																																																																
<p>DISPLAY AND KEYBOARD (DSKY)</p> <p>Qualification Item: 2003950-011, S/N 30</p> <p>Flight Items: ECP Incorporation 2003950 2003994 -011 -011 -021 -031 -041 -051</p> <table border="0"> <tr><td>419</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>476</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>479</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>493</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>494</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>501</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>504</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>505</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>641</td><td></td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>673</td><td></td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>735</td><td></td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>739</td><td></td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>768</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>2003994 (Cont)</p> <table border="0"> <tr><td></td><td>-061</td><td>-071</td><td>-081</td><td>-091</td><td>-111</td><td>-121</td></tr> <tr><td>419</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>476</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>479</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>493</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>494</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>501</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>504</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>505</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>641</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>673</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>735</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>739</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>768</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	419	X	X		X	X	476	X	X		X	X	479	X	X		X	X	493	X	X		X	X	494	X	X		X	X	501	X	X		X	X	504	X	X		X	X	505	X	X		X	X	641		X			X	673		X			X	735			X		X	739				X	X	768							-061	-071	-081	-091	-111	-121	419	X	X	X	X	X	X	476	X	X	X	X	X	X	479	X	X	X	X	X	X	493	X	X	X	X	X	X	494	X	X	X	X	X	X	501	X	X	X	X	X	X	504	X	X	X	X	X	X	505	X	X	X	X	X	X	641		X		X		X	673		X		X		X	735	X	X	X	X	X	X	739	X	X	X	X			768		X	X	X	X	X	<p><u>ECP 419 and 493</u> - Replacement of IDM modules, P/N 2003950-021, with -031 configuration, which incorporates P/N 1005001-2 and P/N 1005003-2 Filters Relays, and change of resistors R13 and R17.</p> <p><u>ECP 476</u> - Change Alarm Indicator Module, P/N 1006387-001 to -002, application of light diffusing paint to alarm indicator face to prevent outgassing.</p> <p><u>ECP 479</u> - Application of polytetrafluoroethylene coating to shaft of DSKY Pushbutton Switch Assembly.</p> <p><u>ECP 494</u> - Replacement of Front Housing Assembly, P/N 2003885-011, with P/N 2003949-021, product improvement change for ease of manufacturing.</p> <p><u>ECP's 501 and 505</u> - Change of several modules via implementation of Flight Processing Specification ND 1002313 for transistors, P/N 1006323 (ECP 501), and ND 1002314 for diodes, and new diode P/N 1006399 (ECP 505). ECP 505 also includes replacement of P/N 1006751 diodes with P/N 1006399 because of channeling and surface instabilities.</p> <p><u>ECP 504</u> - Implementation of FPS ND 1002341 for P/N's 1005001 and 1005003 relays.</p> <p><u>ECP 641</u> - Incorporation of aluminum pushbutton caps, glass overlays of Indicator Alarm Face (Fire Fix).</p> <p><u>ECP 673</u> - Incorporation of redesigned leaf spring in pushbutton cap housings.</p> <p><u>ECP 735</u> - Incorporates safety glass over I/L and E/L panels.</p> <p><u>ECP 739</u> - Incorporates additional legends in I/L panel.</p> <p><u>ECP 768</u> - Incorporates design change to increase safety margin of E/L displays.</p>	<p><u>ECP 491</u> - Qualified by test. Change was incorporated in Qualification Item via Raytheon Watver C-888.</p> <p><u>ECP 476</u> - Qualified by evaluation test.</p> <p><u>ECP 479</u> - Qualified by evaluation test.</p> <p><u>ECP 494</u> - Qualified by similarity.</p> <p><u>ECP 501/505</u> - Qualified by part test.</p> <p><u>ECP 504</u> - Qualified by similarity.</p> <p><u>ECP 641</u> - Qualified by test. AP-M-19631-N3162.</p> <p><u>ECP 673</u> - Qualified by test. AP-M-19631-N3162.</p> <p><u>ECP 735</u> - Qualified by test. AP-M-19631-N3162.</p> <p><u>ECP 739</u> - Qualified by similarity.</p> <p><u>ECP 768</u> - Qualified by test.</p> <p>Flight item is qualified by test and by similarity to qualification item.</p>
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<p>POWER AND SERVO ASSEMBLY (PSA)</p> <p>Qualification Item: P/N 6007200-041, S/N 4</p> <p>Flight Item: ECP Incorporation</p> <table border="0"> <tr> <td></td> <td><u>-041</u></td> <td><u>-081</u></td> </tr> <tr> <td>461</td> <td></td> <td>X</td> </tr> <tr> <td>622</td> <td></td> <td>X</td> </tr> <tr> <td>757</td> <td></td> <td>X</td> </tr> </table>		<u>-041</u>	<u>-081</u>	461		X	622		X	757		X	<p><u>ECP 461</u> — Replacement of gimbal servo out-of-limits and lock warning module, P/N 2007114-011, with -021 configuration, which contains two P/N 1010370 diodes in place of two P/N 1010392 diodes.</p> <p><u>ECP 622</u> — Application of aluminum foil to exposed encapsulant surfaces.</p> <p><u>ECP 757</u> — Incorporated circuit change to provide for translunar bus isolation.</p>	<p><u>ECP 461</u> — Diode P/N 1010370 qualified at part level, AP-M-10815.</p> <p><u>ECP 622</u> — Flammability test. AP-M-18508.</p> <p><u>ECP 757</u> — Qualified by evaluation test.</p> <p>Flight item qualified by test.</p>			
	<u>-041</u>	<u>-081</u>															
461		X															
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757		X															
<p>COMPUTER CONTROL AND RETICLE DIMMER (CCRD)</p> <p>Qualification Item: P/N 6014512-011, S/N 6</p> <p>Flight Item: ECP Incorporation</p> <table border="0"> <tr> <td></td> <td><u>-011</u></td> <td><u>-081</u></td> </tr> <tr> <td>422</td> <td></td> <td>X</td> </tr> <tr> <td>538</td> <td></td> <td>X</td> </tr> <tr> <td>594</td> <td></td> <td>X</td> </tr> <tr> <td>594R1</td> <td></td> <td>X</td> </tr> </table>		<u>-011</u>	<u>-081</u>	422		X	538		X	594		X	594R1		X	<p><u>ECP 422</u> — CCRD mounting changed from AOT assembly to AOT guard assembly, heater pad modified, and wiring added.</p> <p><u>ECP 538</u> — Replacement of reticle brightness potentiometer, P/N 1010916-1 with P/N 1008932-1.</p> <p><u>ECP 594</u> — Replaced plastic overlays of E/L's to aluminum, P/N 1008943/44, replaced existing harness lacing tape with P/N 1008936, and added aluminum tape, P/N 1008937, over exposed polyurethane potting material.</p> <p><u>ECP 594R1</u> — Readout characters on illuminated panels are filled in for better legibility.</p>	<p><u>ECP 422</u> — Qualification test completed with CCRD mounted in a more severe orientation.</p> <p><u>ECP 538</u> — Qualified by Evaluation test. 26-P-391</p> <p><u>ECP 594</u> — Flammability test. AP-M-18508.</p> <p><u>ECP 594R1</u> — Qualified by similarity.</p> <p>Flight item qualified by test and by similarity to qualification item.</p>
	<u>-011</u>	<u>-081</u>															
422		X															
538		X															
594		X															
594R1		X															
<p>SIGNAL CONDITIONER ASSEMBLY (SCA)</p> <p>Qualification Item: P/N 6007010-011, S/N 2</p> <p>Flight Item: ECP Incorporation 6007010 or 6007013</p> <table border="0"> <tr> <td></td> <td><u>-011</u></td> <td><u>-021</u></td> </tr> <tr> <td>624</td> <td></td> <td>X</td> </tr> </table>		<u>-011</u>	<u>-021</u>	624		X	<p><u>ECP 624</u> — Application of aluminum foil tape on three sides of header heatsink interface.</p> <p>Operational Signal Conditioner, P/N 6007013, differs from flight qualification configuration, P/N 6007010, in that the IRIG temperature telemetry circuitry is eliminated in P/N 6007013.</p>	<p><u>ECP 624</u> — Flammability test. AP-M-18508.</p> <p>Flight item qualified by test and by similarity qualification item.</p>									
	<u>-011</u>	<u>-021</u>															
624		X															

ITEM DESCRIPTION	DIFFERENCES BETWEEN QUALIFICATION ITEMS AND FLIGHT HARDWARE	REMARKS																																																
<p>ALIGNMENT OPTICAL TELESCOPE (AOT)</p> <p>Qualification Item: P/N 6011000-031, S/N 10</p> <p>Requalification Item for ECP's 421, 539, 540, 542, and 543: P/N 6011000-032, S/N 10</p> <p>Flight Item: ECP Incorporation</p> <table border="1" data-bbox="104 357 314 512"> <thead> <tr> <th></th> <th>-031/032</th> <th>-074</th> <th>-111</th> </tr> </thead> <tbody> <tr><td>410</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>422</td><td></td><td>X</td><td>X</td></tr> <tr><td>473</td><td></td><td>X</td><td>X</td></tr> <tr><td>487</td><td></td><td>X</td><td>X</td></tr> <tr><td>633</td><td>X</td><td></td><td>X</td></tr> <tr><td>657</td><td></td><td>X</td><td>X</td></tr> <tr><td>697</td><td></td><td>X</td><td>X</td></tr> </tbody> </table>		-031/032	-074	-111	410	X	X	X	422		X	X	473		X	X	487		X	X	633	X		X	657		X	X	697		X	X	<p><u>ECP 410</u> - Repositioning of eyepiece locking lever to shift arc of operation 180 degrees. <u>ECP 422</u> - Change of CCRD mounting from AOT Assembly to AOT Guard Assembly. <u>ECP 473</u> - Addition of shield to prism head end to eliminate light scatter from radar mount. <u>ECP 487</u> - Incorporation of air focus test requirements into AOT procurement specification. <u>ECP 633</u> - Spacecraft seal protection. Removed polyurethane foam heater insulators and replaced with metallic cover, replaced existing lacing tape with P/N 1008936 lacing tape, and added aluminum foil tape over exposed potting harness connectors. <u>ECP 657</u> - Incorporation of conical sunshade and radar shield assembly. <u>ECP 697</u> - Addition of AOT harness protective shield.</p> <p>AOT High Density Filter Assembly, P/N 6011856, qualified by similarity to SXT Filter, P/N 1011931, which was qualified as part of the Eyepiece Storage Unit.</p>	<p><u>ECP 410</u> - Qualified by similarity. <u>ECP 422</u> - Qualification test completed with CCRD mounted in a more severe orientation. <u>ECP 473</u> - Qualified by similarity. <u>ECP 487</u> - Qualified by similarity. <u>ECP 633</u> - Qualified by test. AP-M-17879-N1568. <u>ECP 657</u> - Qualified by test. AP-M-19614-N3156. <u>ECP 697</u> - Qualified by similarity. Flight item qualified by test and by similarity to qualification item.</p>																
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<p>INTERCONNECT HARNESS GROUP</p> <p>Qualification Item: P/N 6014515-021, S/N3 Harness Group P/N 6010659, S/N 3 A-Harness P/N 6010660, S/N 3 B-Harness</p> <p>Flight Item: ECP incorporation</p> <table border="1" data-bbox="66 699 415 813"> <thead> <tr> <th></th> <th>-021</th> <th>-031</th> <th>-041</th> <th>-051</th> <th>-061</th> <th>-071</th> <th>-081</th> </tr> </thead> <tbody> <tr><td>533</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>551</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>562</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>582</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>626</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		-021	-031	-041	-051	-061	-071	-081	533	X			X	X			551					X	X		562		X						582							X	626			X					<p><u>ECP 533</u> - Incorporates Uplink wiring. <u>ECP 551</u> - Provides for replacement of nylon lacing tape, G & N 607 A-Harness P/N 6010674; B-Harness P/N 6010675, G & N 605-606 A-Harness P/N 6010676; B-Harness P/N 6010675 <u>ECP 562</u> - Provides for replacement of nylon lacing tape, G & N 603 A-Harness P/N 6010672; B-Harness P/N 6010673 <u>ECP 582</u> - Provides for incorporation of flammability fixes in G & N 602 A-Harness P/N 6010677; B-Harness P/N 6010675 <u>ECP 626</u> - Flammability Protection. Replaced existing harness lacing tape with P/N 1008936 Betaglass tape and covered all exposed potting with aluminum tape.</p>	<p><u>ECP 533</u> - Qualified by similarity. <u>ECP 551</u> - Qualified by Flammability test. AP-M-18508. <u>ECP 562</u> - Qualified by Flammability test. AP-M-18508. <u>ECP 582</u> - Qualified by Flammability test. AP-M-18508. <u>ECP 626</u> - Qualified by Flammability test. AP-M-18508. Flight item qualified by test and by similarity to qualification items.</p>
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