

HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,
 AUTHORIZED DISTRIBUTORS, & OPERATORS



STC No.: SR02120NY-D		Agusta Bell AB139																					
STC Holder: Honeywell International Inc 23500 W. 105th Street Olathe, KS 66061																							
STC Issue Date:	2006 SEPT																						
STC Reissue Date:	2009 JUN																						
Applicable to:	AB139																						
HUMS Model:	Model VXP																						
NOTE: Supports either Pratt & Whitney or Turbomeca engines																							
SUMMARY: Honeywell has developed an automated vibration monitoring system for the Agusta Bell AB139 helicopter. The VXP Kit provides the AB139 helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & Balance (RT&B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel. The on-board system automatically acquires and processes sensor data, continuously monitors real-time condition and health indices, records aircraft intelligent information and saves data for post-flight analysis in the ground station. Software provided with the ground station assists maintenance personnel to perform aircraft maintenance and troubleshooting. For QA personnel, the software allows the review of the aircraft condition and health status, perform analysis, trending, and analysis to generate maintenance action (work order). Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.																							
MAJOR COMPONENT PART NUMBERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part Number</th> <th style="text-align: left;">Qty</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>915-17533</td> <td>1</td> <td>AB139 VXP Installation Kit</td> </tr> <tr> <td>901-17546</td> <td>1</td> <td>Cockpit Control Unit</td> </tr> <tr> <td>906-17784</td> <td>1</td> <td>Remote DU, Center Console Panel</td> </tr> <tr> <td>901-11800-3</td> <td>1</td> <td>Optical Blade Tracker</td> </tr> <tr> <td>906-17790</td> <td>1</td> <td>Tracker Bracket</td> </tr> <tr> <td>901-17330</td> <td>1</td> <td>VXP Display Unit</td> </tr> </tbody> </table>			Part Number	Qty	Description	915-17533	1	AB139 VXP Installation Kit	901-17546	1	Cockpit Control Unit	906-17784	1	Remote DU, Center Console Panel	901-11800-3	1	Optical Blade Tracker	906-17790	1	Tracker Bracket	901-17330	1	VXP Display Unit
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<p>SENSORS:</p> <p>15 Vibration sensors and 2 tachometer/photocell inputs</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Tail rotor radial</td> <td style="width: 33%;">Tail rotor axial</td> <td style="width: 33%;">Tail rotor IGB</td> </tr> <tr> <td>MGB input #1</td> <td>MGB input #2</td> <td>Hanger bearing</td> </tr> <tr> <td>Cabin lateral</td> <td>Cabin vertical</td> <td>Engine #1 turbine</td> </tr> <tr> <td>Engine #2 turbine</td> <td>MGB quill</td> <td>Eng #1 ACC GB</td> </tr> <tr> <td>Eng #2 ACC GB</td> <td>Tail rotor tachometer</td> <td>Main rotor tachometer</td> </tr> </table>		Tail rotor radial	Tail rotor axial	Tail rotor IGB	MGB input #1	MGB input #2	Hanger bearing	Cabin lateral	Cabin vertical	Engine #1 turbine	Engine #2 turbine	MGB quill	Eng #1 ACC GB	Eng #2 ACC GB	Tail rotor tachometer	Main rotor tachometer
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<p>INSTALL LOCATIONS:</p>																
<p>OPTIONS:</p>																

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Document Number 26357 REV A