


**Honeywell HUMS**  
**Supplemental Type Certificates (STCs)**  
**Updated 24 February 2016 (PHP)**

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# HUMS FACT SHEET

Honeywell Aerospace  
1944 East Sky Harbor Circle  
Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01970NY-D</b>		<b>Agusta A109</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Aug 2005		
STC Reissue Date:	Jun 2009		
Applicable to:	A109E		
HUMS Model:	VXP HUMS		

### NOTE:

### SUMMARY:

Honeywell has developed an automated vibration monitoring system for the Agusta A109 helicopter. The VXP Kit provides the Agusta A109 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.

The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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.

#### The systems provides:

- Rotor Track & Balance solution.
- Engine and drive train vibration monitoring.
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.
- Operational usage accumulation and recording.
- Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.

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.

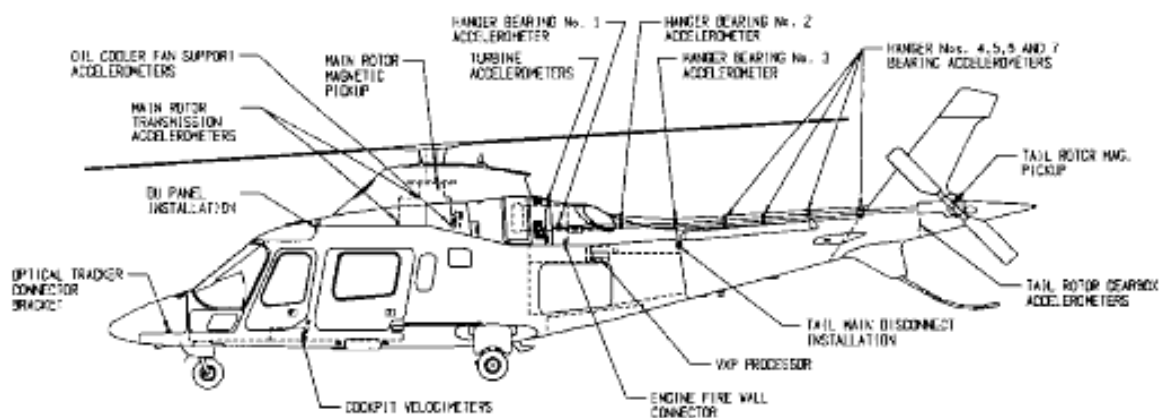
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17218	1	A109 Installation Kit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker
904-15267	1	Tracker Bracket (A-109 A/A11/C/K/MAX)
903-13420	1	Tracker Bracket (A-109 A/A11/C/BA/MAX/K)
906-16595	1	Tracker Bracket Main Rotor

## SENSORS:

20 Vibration Accelerometers and 2 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><u>Americas</u> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><u>EMEA</u> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><u>APAC</u> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02120NY-D</b>		<b>Agusta Bell AB139</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Sept 2006		
STC Reissue Date:	Jun 2009		
Applicable to:	AB139		
HUMS Model:	Model VXP		

### NOTE:

### 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:

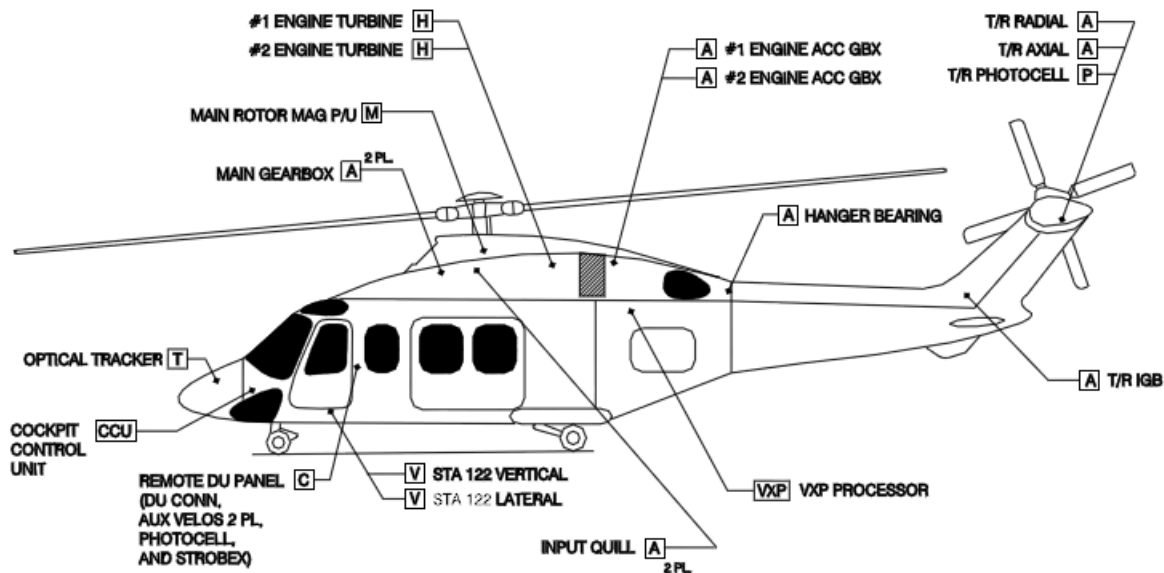
<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
915-17533	1	AB139 VXP Installation Kit
901-17546	1	Cockpit Control Unit
906-17784	1	Remote DU, Center Console Panel
901-11800-3	1	Optical Blade Tracker
906-17790	1	Tracker Bracket
901-17330	1	VXP Display Unit

## SENSORS:

15 Vibration sensors and 2 tachometer/photocell inputs

Tail rotor radial	Hanger bearing	MGB quill
Tail rotor axial	Cabin lateral	Eng #1 ACC GB
Tail rotor IGB	Cabin vertical	Eng #2 ACC GB
MGB input #1	Engine #1 turbine	Tail rotor tachometer
MGB input #2	Engine #2 turbine	Main rotor tachometer

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500

International: 602-365-6500

Email: HUMSSupport@honeywell.com

#### Americas

Paul Paulson

Technical Sales Manager

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Email: PPaulson@Honeywell.com

#### EMEA

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Email: Andy.Turner@Honeywell.com

#### APAC

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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01949NY-D</b>		<b>Eurocopter AS365</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Jan 2005		
STC Reissue Date:	Jun 2009		
Applicable to:	AS-365N1/N2/N3		
HUMS Model:	VXP HUMS		
NOTE:			
<b>SUMMARY:</b>			
<p>Honeywell has developed an automated vibration monitoring system for the Eurocopter AS365 helicopter. The VXP Kit provides the AS365 helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>			



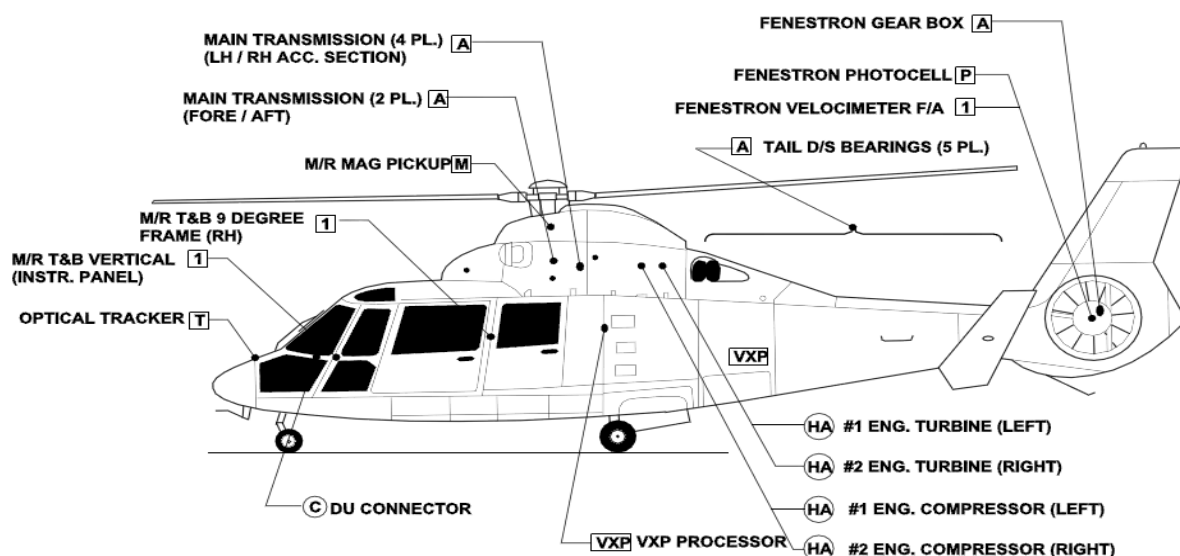
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17226	1	AS365 Installation Kit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker
904-12742	1	Tracker Bracket

## SENSORS:

19 Vibration Accelerometers and 2 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

**Americas**  
Paul Paulson  
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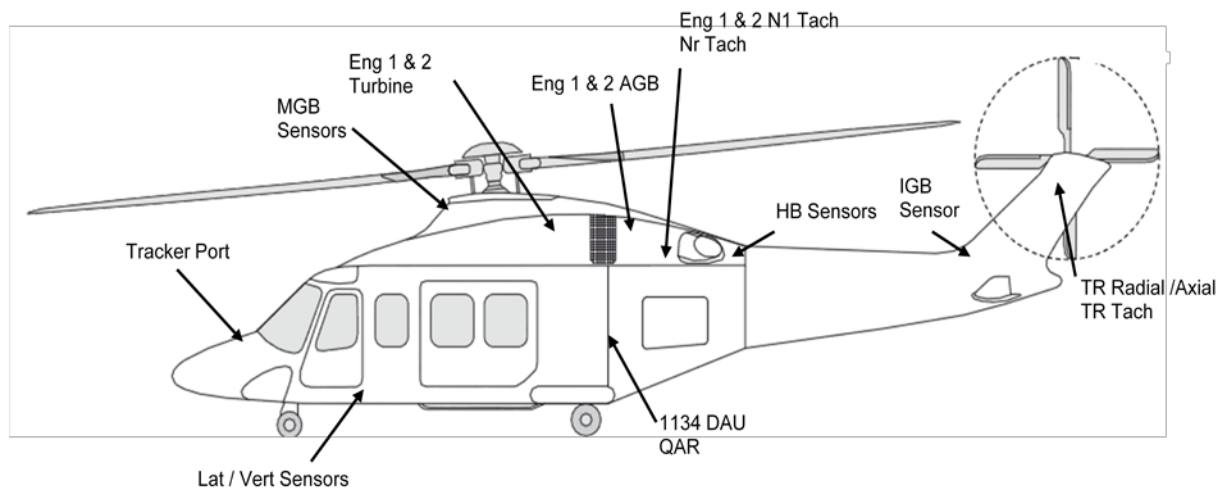
STC No.: <b>SR03260NY-D</b>		<b>Agusta Westland AW139</b>																											
STC Holder: Air Concepts International 14 Caesar Place Moonachie, NJ 07074																													
STC Issue Date:	Mar 2013																												
STC Reissue Date:																													
Applicable to:	AW139																												
HUMS Model:	Model 1134																												
NOTE:																													
<b>SUMMARY:</b>  Honeywell, in conjunction with Air Concepts International (ACI), has developed an automated vibration monitoring and fault diagnostic system for the Agusta Westland AW139 helicopter. This system will monitor the health of the equipment during routine operation and initiate work instructions to correct any warnings or faults detected. In addition to Rotor Track and Balance (RT&B), the system monitors the status and health of the drive train while also recording any engine related exceedances that may occur during operation.  Kits are available for new installations as well as upgrades for those aircraft using Honeywell's VXP system. Options provided for data download via a cockpit interface panel using a USB memory device or a Quick Access Recorder (QAR).																													
<b>MAJOR COMPONENT PART NUMBERS:</b>  <table><thead><tr><th>Part Number</th><th>Qty</th><th>Description</th></tr></thead><tbody><tr><td colspan="3">AW139 Aircraft Adapter Kit - four kits available</td></tr><tr><td colspan="3">• HPN: 1134-3200-FA-xx</td></tr><tr><td></td><td>- 01</td><td>New installation with QAR</td></tr><tr><td></td><td>- 02</td><td>New installation with USB port</td></tr><tr><td></td><td>- 03</td><td>Upgrade from VXP with QAR</td></tr><tr><td></td><td>- 04</td><td>Upgrade from VXP with USB port</td></tr><tr><td colspan="3">AW139 Ground Accessory Kit</td></tr><tr><td colspan="3">• HPN: 1134-3203-FA (includes Optical Blade Tracker)</td></tr></tbody></table>			Part Number	Qty	Description	AW139 Aircraft Adapter Kit - four kits available			• HPN: 1134-3200-FA-xx				- 01	New installation with QAR		- 02	New installation with USB port		- 03	Upgrade from VXP with QAR		- 04	Upgrade from VXP with USB port	AW139 Ground Accessory Kit			• HPN: 1134-3203-FA (includes Optical Blade Tracker)		
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## SENSORS:

Tail rotor radial	Hanger bearing #1	MGB tail D/S quill
Tail rotor axial	Cabin lateral	MGB top case aft left
Tail rotor IGB	Cabin vertical	MGB top case fwd left
TGB case	Engine #1 turbine	MGB top case fwd right
MGB input module #1	Engine #2 turbine	MGB tail D/S tachometer
MGB input module #2	Eng AGB #1	MGB tachometer
MGB input shaft #1	Eng AGB #2	Tail rotor tachometer
MGB input shaft #2	MGB lateral	Main rotor tachometer

## INSTALL LOCATIONS:



## OPTIONS:

The Model 1134 can be connected to the Sky Connect Tracker III to provide real-time exceedance alerts.

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

#### Americas

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Tel: 256-319-7112  
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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01972NY-D</b>		<b>Bell 206L</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Oct 2005		
STC Reissue Date:	Jun 2009		
Applicable to:	206L-4		
HUMS Model:	VXP HUMS		

### NOTE:

### SUMMARY:

Honeywell has developed an automated vibration monitoring system for the Bell 206L helicopter. The VXP Kit provides the Bell 206L 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.

#### The systems provides:

- Rotor Track & Balance solution.
- Engine and drive train vibration monitoring.
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.
- Operational usage accumulation and recording.
- Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.

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.

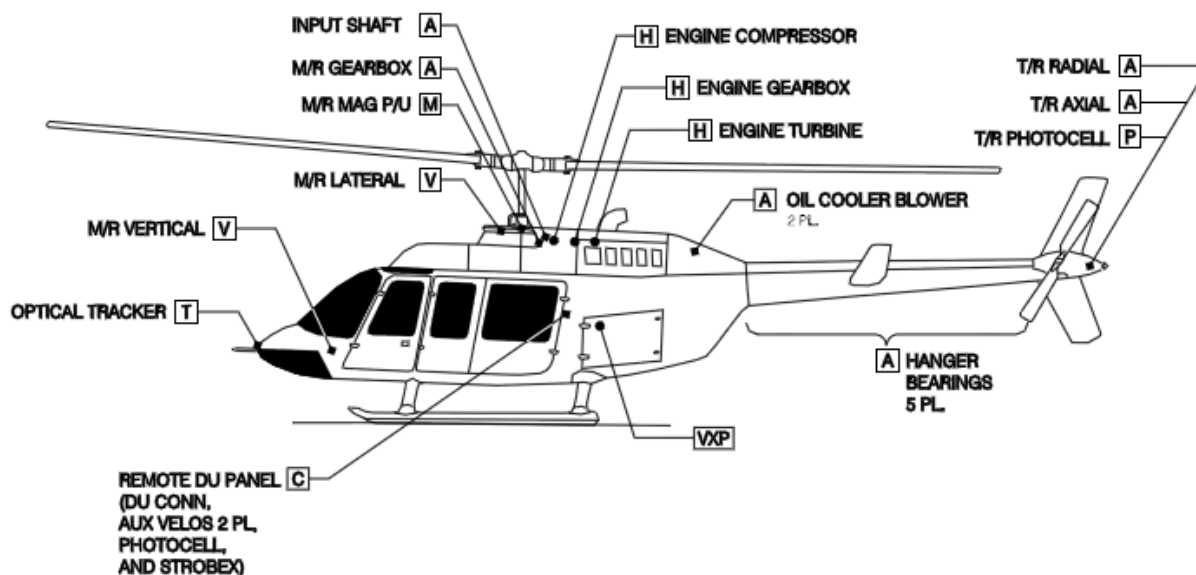
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17201	1	B206L Installation Kit
901-11800-3	1	Optical Tracker
906-13753-2	1	Tracker Bracket
901-17330	1	VXP Display Unit

## SENSORS:

16 Vibration Accelerometers and 2 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><u>Americas</u> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><u>EMEA</u> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><u>APAC</u> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02818NY</b>		<b>Bell 212</b>	
STC Holder: Aeronautical Accessories Inc Bell Helicopter Textron Inc 441 Industrial Park Rd. Piney Flats, TN 37686			
STC Issue Date:	Jun 2010		
STC Reissue Date:	Jun 2011		
Applicable to:	B212		
HUMS Model:	1209 HUMS		
NOTE:			
SUMMARY:			
<p>System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or <a href="mailto:sales@aero-access.com">sales@aero-access.com</a> or <a href="http://www.aero-access.com/catalog">www.aero-access.com/catalog</a></p> <p>The Bell Helicopter Vibration Monitor (BHVM) Kit and Altair Engine Trend Monitor System provide drive train health and engine monitoring to improve aircraft serviceability and maintainability between regularly scheduled inspections and overhaul periods. A control head located in the pedestal provides the primary flight crew interface to the BHVM. A pedestal mounted USB port allows the flight crew to transfer data between the aircraft and a PC-based ground support station. An Ethernet connection provides means for maintenance personnel to connect to the ground support station. BHVM diagnostics facilitate vibration-related maintenance functions such as main rotor track and balance, tail rotor balancing, main input drive shaft balancing and tuning of the instrument panel Frahm absorber. Enhanced vibration diagnostics allow maintenance personnel to detect faults within the main rotor system, tail rotor drive system, engine accessory gearbox and combining gearbox. Built in test features simplify system troubleshooting.</p> <p>The BHVM Kit uses the Honeywell Model 1209 Main Signal Processing Unit (MSPU), a Cockpit Control Head (CCH), sensors including accelerometers and tachometers, and a PC based ground station. Honeywell's PC-GBS software is used for storage of data received from the airborne system, analyzes the data to determine if defined limits have been exceeded, annunciates exceedances, and specifies corrective maintenance actions (either self-generated or via references to approved maintenance manuals).</p>			

## MAJOR COMPONENT PART NUMBERS:

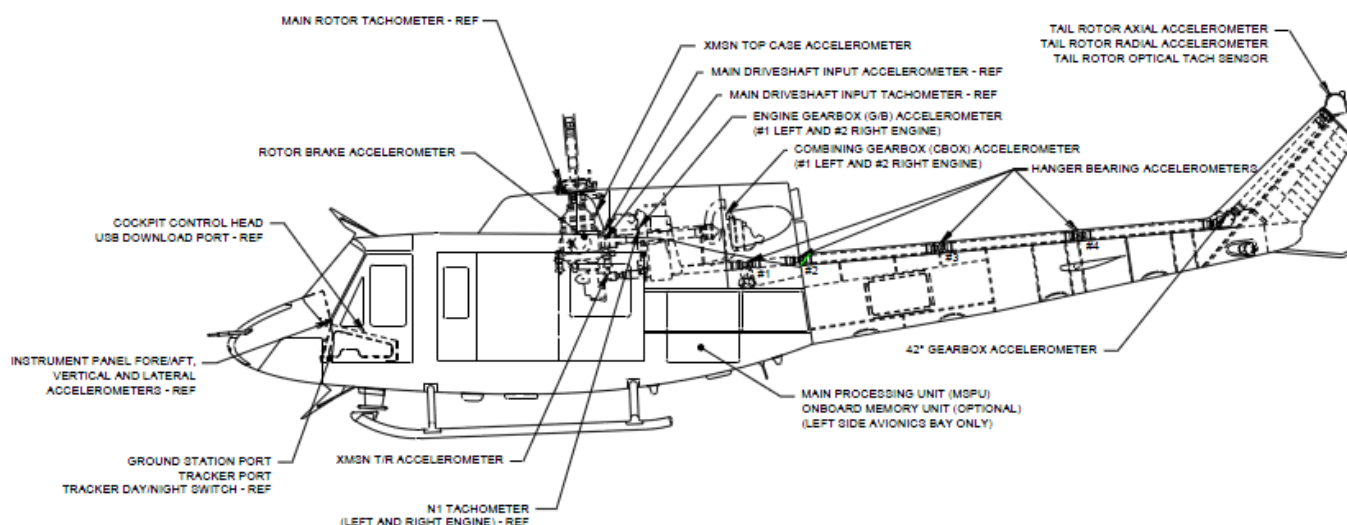
### Aeronautical Accessories Inc. Part Numbers:

212-262-001 Bell 212 (BHVM) Kit  
 212-262-002 Bell 212 (BHVM) Kit w/ Altair Smart Cycle

## SENSORS:

18 Vibration Accelerometers and 4 Tachometers as shown below. Sensors are provided by AAI

## INSTALL LOCATIONS:



## OPTIONS:

For ordering or technical information, contact: Aeronautical Accessories Inc.

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500  
 International: 602-365-6500  
 Email: HUMSSupport@honeywell.com

**Americas**  
 Jason Rios  
 Technical Sales Manager  
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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SH03-26</b>		<b>Bell 212</b>	
STC Holder: Canadian Helicopters 4740 Agar Drive Richmond, British Columbia CANADA V7B 1A3			
STC Issue Date:	March 2005		
STC Reissue Date:			
Applicable to:	212		
HUMS Model:	VXP HUMS		
NOTE:			
<b>SUMMARY:</b> <p>Honeywell has developed an automated vibration monitoring system for the Bell 212 helicopter. The VXP Kit provides the Bell Model 212 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 212 Maintenance Manual. 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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>			



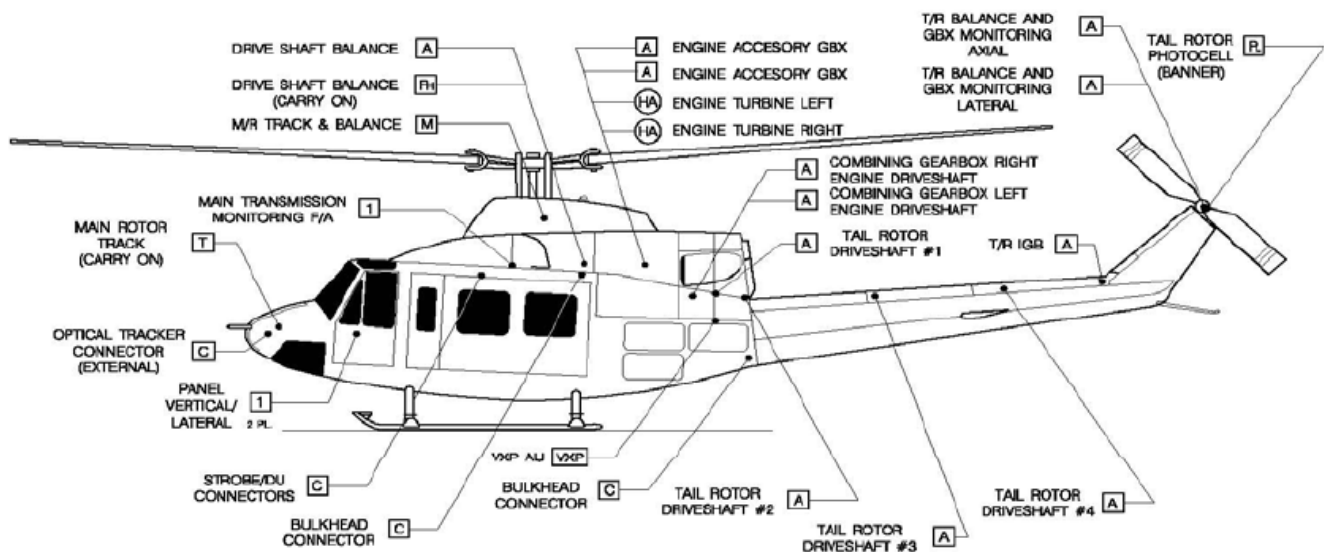
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-16174	1	B212 Installation Kit
915-16176	1	B212 Application Kit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker
903-15560	1	Tracker Bracket

## SENSORS:

16 Vibration Accelerometers and 3 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01613NY-D</b>		<b>Bell 407</b>
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061		
STC Issue Date:	Aug 2004	
STC Reissue Date:	Apr 2013	
Applicable to:	B407	
HUMS Model:	VXP HUMS	
<b>NOTE:</b>		
<b>SUMMARY:</b> <p>Honeywell has developed an automated vibration monitoring system for the Bell 407 helicopter. The VXP Kit provides the Bell Model 407 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 407 Maintenance Manual. 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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>		

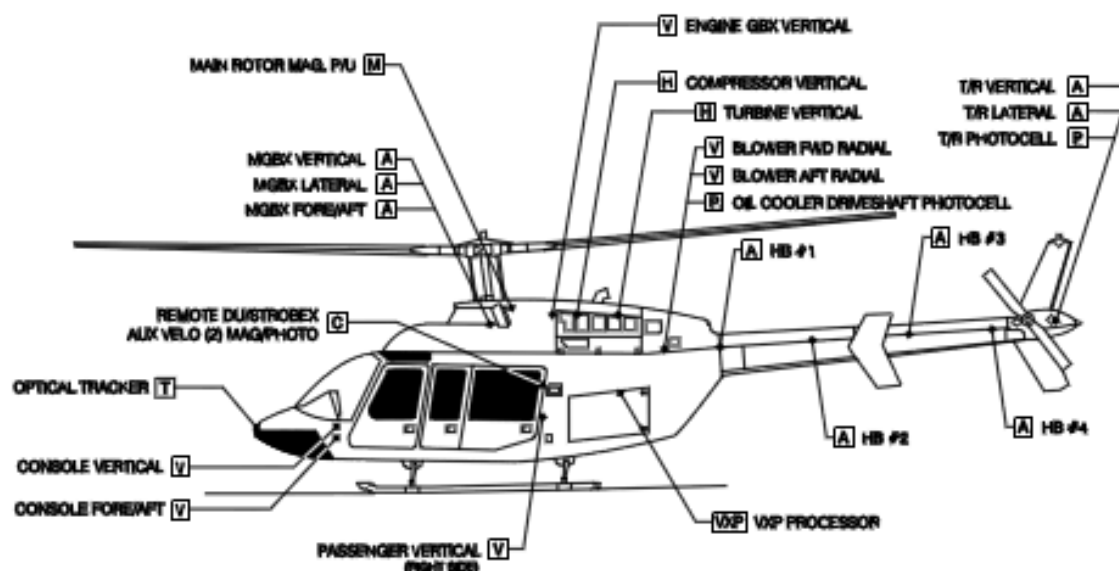
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17003	1	B407 Installation Kit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker
906-13753-2	1	Tracker Bracket

## SENSORS:

18 Vibration accelerometers and 3 tachometers/photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><u>Americas</u> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><u>EMEA</u> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><u>APAC</u> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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# HUMS FACT SHEET

Honeywell Aerospace  
1944 East Sky Harbor Circle  
Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR09373RC-D</b>		<b>Bell 412</b>
STC Holder: Aeronautical Accessories Inc Bell Helicopter Textron Inc 441 Industrial Park Rd. Piney Flats, TN 37686		
STC Issue Date:	Jun 2005	
STC Reissue Date:		
Applicable to:	B412, B412EP	
HUMS Model:	1209 HUMS	
NOTE:		
SUMMARY:		
<p>System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or <a href="mailto:sales@aero-access.com">sales@aero-access.com</a> or <a href="http://www.aero-access.com/catalog">www.aero-access.com/catalog</a></p> <p>The Bell Helicopter Vibration Monitor (BHVM) Kit and Altair Engine Trend Monitor System provide drive train health and engine monitoring to improve aircraft serviceability and maintainability between regularly scheduled inspections and overhaul periods. A control head located in the pedestal provides the primary flight crew interface to the BHVM. A pedestal mounted USB port allows the flight crew to transfer data between the aircraft and a PC-based ground support station. An Ethernet connection provides means for maintenance personnel to connect to the ground support station. BHVM diagnostics facilitate vibration-related maintenance functions such as main rotor track and balance, tail rotor balancing, main input drive shaft balancing and tuning of the instrument panel Frahm absorber. Enhanced vibration diagnostics allow maintenance personnel to detect faults within the main rotor system, tail rotor drive system, engine accessory gearbox and combining gearbox. Built in test features simplify system troubleshooting.</p> <p>The BHVM Kit uses the Honeywell Model 1209 Main Signal Processing Unit (MSPU), a Cockpit Control Head (CCH), sensors including accelerometers and tachometers, and a PC based ground station. Honeywell's PC-GBS software is used for storage of data received from the airborne system, analyzes the data to determine if defined limits have been exceeded, annunciates exceedances, and specifies corrective maintenance actions (either self-generated or via references to approved maintenance manuals).</p>		

## MAJOR COMPONENT PART NUMBERS:

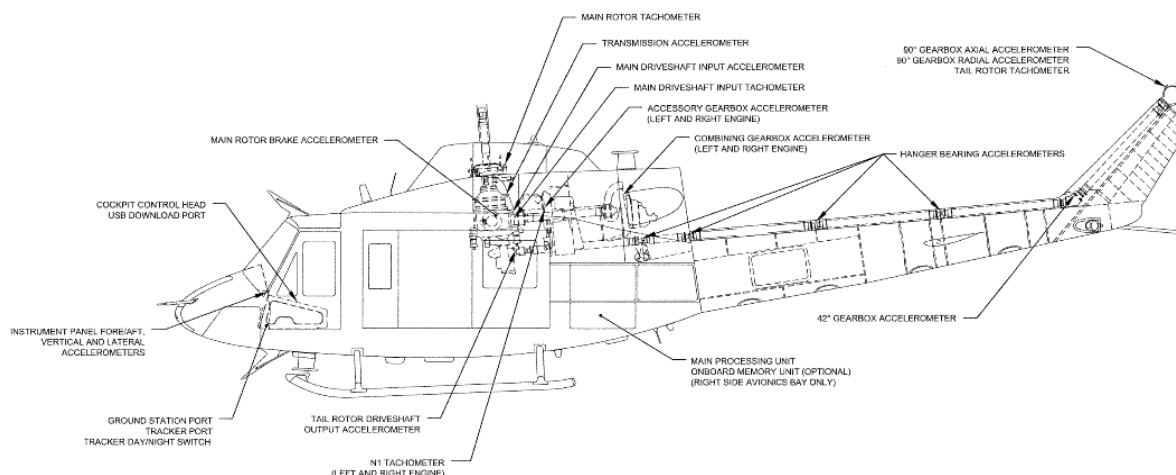
### Aeronautical Accessories Inc. Part Numbers:

412-262-003 Bell 412 (BHVM) Kit w/Smart Cycle for a/c S/N 33001-33213 and 36001-36019  
 412-262-004 Bell 412, 412EP (BHVM) Kit w/Smart Cycle for a/c S/N 36020 and subsequent  
 412-261-0004 USB Memory Unit Kit  
 412-261-0005 Off Aircraft Ground Kit

## SENSORS:

18 Vibration Accelerometers and 4 Tachometers as shown below. Sensors are provided by AAI

## INSTALL LOCATIONS:



## OPTIONS:

For ordering or technical information, contact: Aeronautical Accessories Inc.

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500

International: 602-365-6500

Email: HUMSSupport@honeywell.com

#### Americas

Jason Rios

Technical Sales Manager

Tel: 256-319-7112

Email: Jason.Rios@Honeywell.com

#### EMEA

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#### APAC

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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01591NY-D</b>		<b>Bell 412</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Jul 2003		
STC Reissue Date:	Jun 2009		
Applicable to:	412, 412CF, 412EP		
HUMS Model:	VXP HUMS		

**NOTE:**

Data contained within this Factsheet is applicable to the Bell 412-41 and 412-50 configurations.

**SUMMARY:**

Honeywell has developed an automated vibration monitoring system for the Bell 412 helicopter. The VXP Kit provides the Bell Model 412 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.

The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 412 Maintenance Manual. 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.

**The systems provides:**

- Rotor Track & Balance solution.
- Engine and drive train vibration monitoring.
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.
- Operational usage accumulation and recording.
- Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.

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.



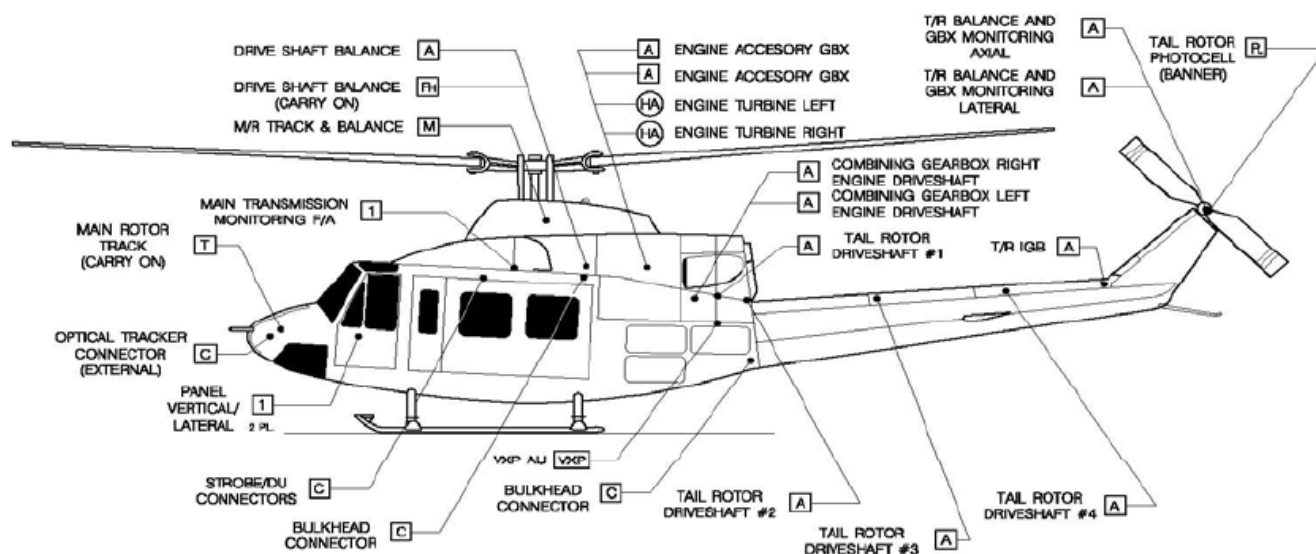
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-16174	1	B412 Installation Kit
915-16176	1	B412 Application Kit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker
903-15560	1	Tracker Bracket

## SENSORS:

16 Vibration Accelerometers and 3 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><b>Americas</b> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><b>EMEA</b> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><b>APAC</b> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01953NY-D</b>		<b>Bell 427</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	Mar 2005		
STC Reissue Date:	Apr 2013		
Applicable to:	427		
HUMS Model:	VXP HUMS		
NOTE:			
<b>SUMMARY:</b> <p>Honeywell has developed an automated vibration monitoring system for the Bell 427 helicopter. The VXP Kit provides the Bell 427 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>			

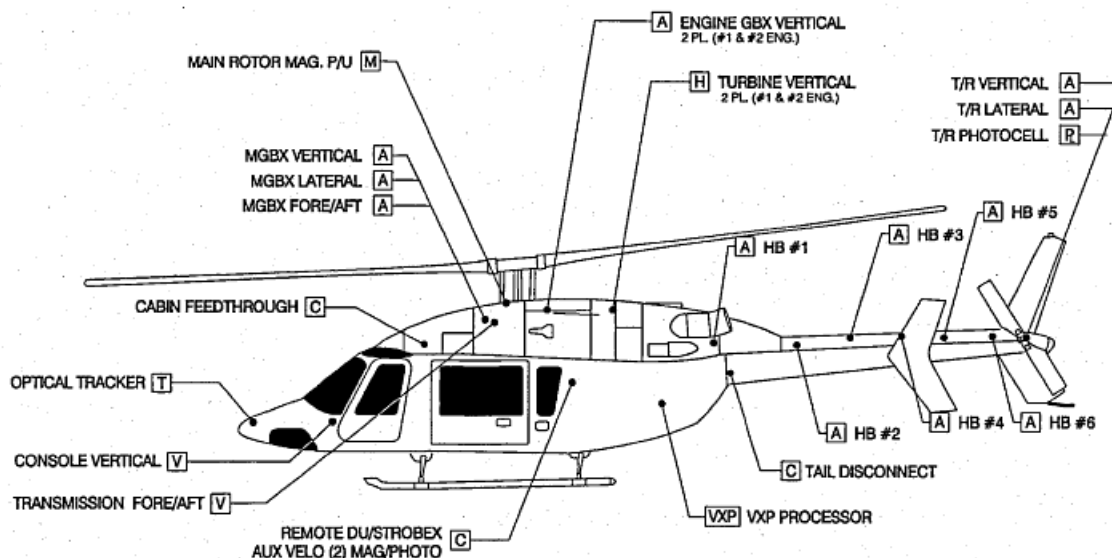
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17150	1	B427 Installation Kit
901-11800-3	1	Optical Tracker
904-17278	1	Tracker Bracket
901-17330	1	VXP Display Unit

## SENSORS:

17 Vibration Accelerometers and 2 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR09536RC-D</b>		<b>Bell 429</b>
STC Holder: Aeronautical Accessories Inc Bell Helicopter Textron Inc 441 Industrial Park Rd. Piney Flats, TN 37686		
STC Issue Date:	Dec 2010	
STC Reissue Date:	Feb 2011	
Applicable to:	B-429	
HUMS Model:	1134 HUMS	
NOTE:		
SUMMARY:		
<p>System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or <a href="mailto:sales@aero-access.com">sales@aero-access.com</a></p> <p>Honeywell, in conjunction with Aeronautical Accessories Inc. (AAI) a wholly owned subsidiary of Bell Helicopters, has developed an automated vibration monitoring and fault diagnostic system for the Bell 429 helicopter. The 1134 HUMS Kit provides the Bell Model 429 Helicopter a comprehensive airframe, rotor, engine and drive system vibration monitoring capability, and aircraft data recording supports customer flight data monitoring (FDM) programs. The HUMS Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 429 Maintenance Manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. Data downloads are manually commanded by pressing the LED array switch located on the PBA panel in the center pedestal.</p> <ul style="list-style-type: none"><li>• Comprehensive airframe, main and tail rotor, engine, and drivetrain vibration monitoring</li><li>• Records aircraft data parameters to support Flight Data Monitoring (FDM) programs</li><li>• Automatic recording based on aircraft flight regime – no pilot intervention required</li><li>• Single point data download for HUMS and FDM data</li></ul> <ul style="list-style-type: none"><li>• Total System Weight approx. 20 lbs</li><li>• Installation Time approx. 180 hrs</li><li>• Interfaces to aircraft display system and ADIU</li></ul>		

## MAJOR COMPONENT PART NUMBERS:

Aeronautical Accessories Inc. Part Number: 429-260-001

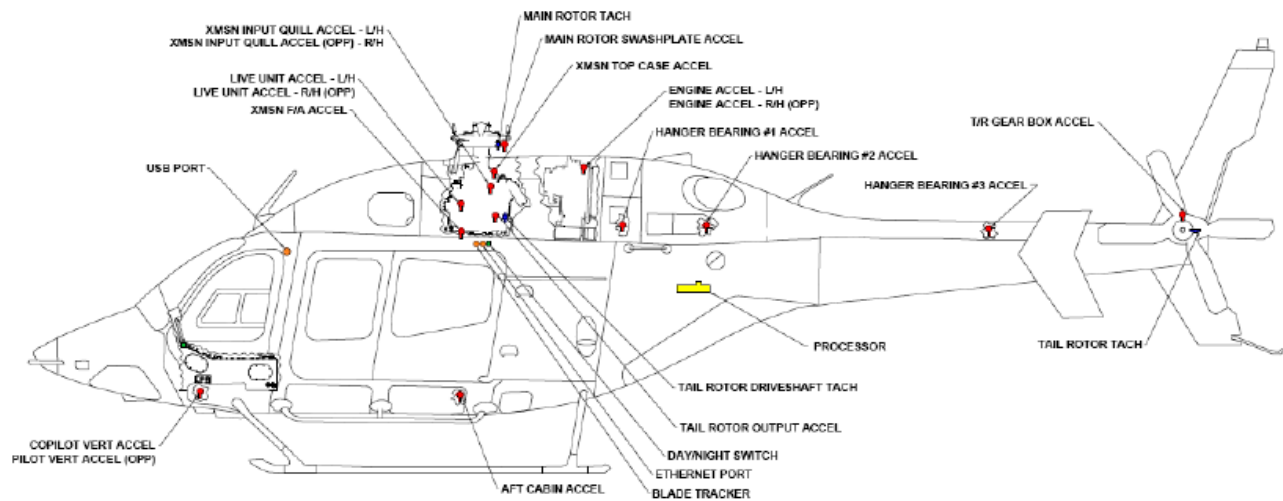
Bell Helicopter Part Number: 099-847-121

Part Number	Qty	Description
86000172-1	1	Model 1134 Data Acquisition Unit

## SENSORS:

17 Vibration Accelerometers and 5 Tachometers as shown below. Sensors are provided by AAI

## INSTALL LOCATIONS:



## OPTIONS:

The Model 1134 can be connected to the Sky Connect Tracker III to provide real-time exceedance alerts.

For ordering or technical information, contact: Aeronautical Accessories Inc

For Honeywell technical support, please contact:

## 24/7 Technical Operations Center

U.S./Canada: 855-808-6500

International: 602-365-6500

Email: HUMSSupport@honeywell.com

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Jason Rios

Technical Sales Manager

Tel: 256-319-7112

Email: Jason.Rios@Honeywell.com

### EMEA

Andy Turner

Technical Sales Manager

Tel: +44 1256722282

Email: Andy.Turner@Honeywell.com

### APAC

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## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01957NY-D</b>		<b>Bell 430</b>
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061		
STC Issue Date:	Apr 2005	
STC Reissue Date:	Apr 2013	
Applicable to:	430	
HUMS Model:	VXP HUMS	
NOTE:		
<b>SUMMARY:</b> <p>Honeywell has developed an automated vibration monitoring system for the Bell 430 helicopter. The VXP Kit provides the Bell 430 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>		



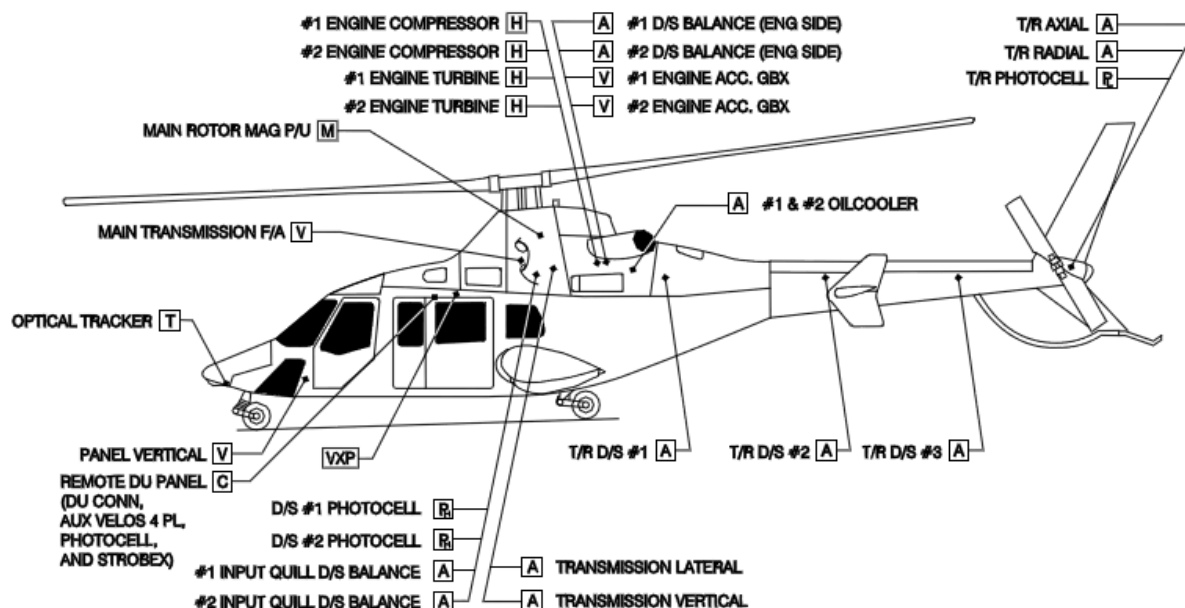
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17154	1	B430 Installation Kit
901-11800-3	1	Optical Tracker
906-16610	1	Tracker Bracket
901-17330	1	VXP Display Unit

## SENSORS:

20 Vibration Accelerometers and 4 Tachometers/Photocells as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
 International: 602-365-6500  
 Email: HUMSSupport@honeywell.com

<u>Americas</u> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com	<u>EMEA</u> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com	<u>APAC</u> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com
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Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02114NY-D</b>		<b>Eurocopter EC135</b>	
STC Holder: Honeywell International Inc 23500 W. 105 <sup>th</sup> Street Olathe, KS 66061			
STC Issue Date:	May 2006		
STC Reissue Date:	Jun 2009		
Applicable to:	EC135 P2		
HUMS Model:	VXP HUMS		
NOTE:			
Supports either Pratt & Whitney or Turbomeca engines			
SUMMARY:			
<p>Honeywell has developed an automated vibration monitoring system for the Eurocopter EC135 helicopter. The VXP Kit provides the EC135 helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>			

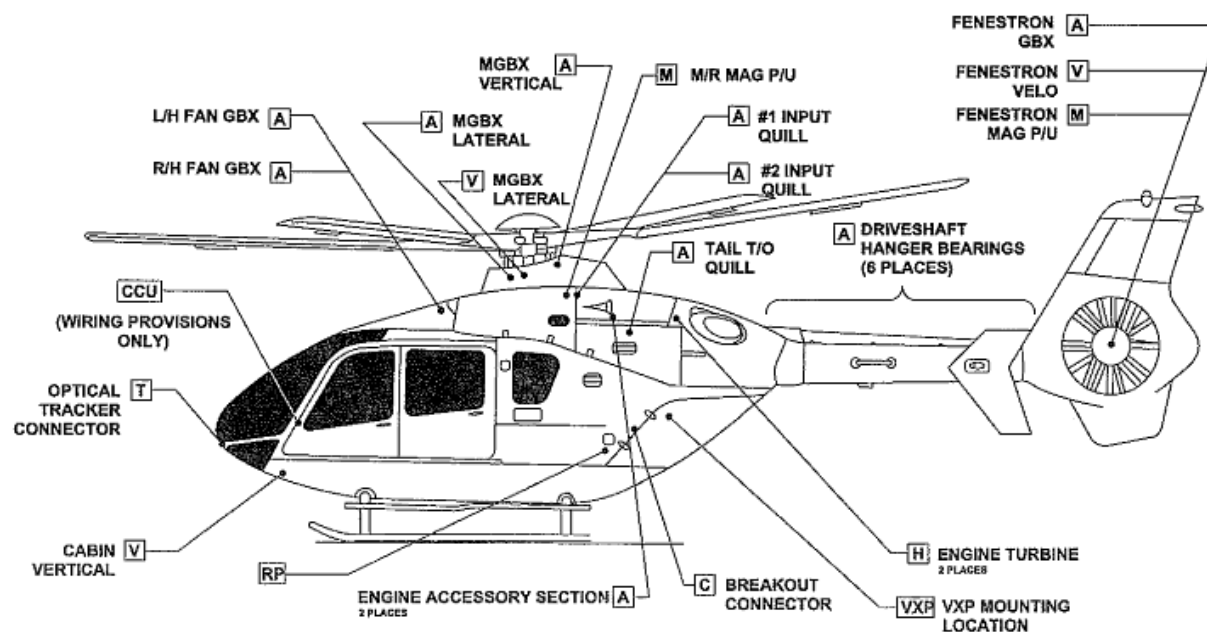
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17377	1	EC135 Installation Kit
915-17558	1	Cockpit Control Unit
901-17330	1	VXP Display Unit
901-11800-3	1	Optical Tracker

## SENSORS:

18 Vibration Accelerometers and 2 Tachometers as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><u>Americas</u> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><u>EMEA</u> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><u>APAC</u> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02535LA</b>		<b>Eurocopter BK117/EC145</b>	
STC Holder: Diagnostic Solutions International, LLC (DSI) 2580 East Philadelphia Street, Unit C Ontario, CA 91761			
STC Issue Date:	May 28, 2015		
STC Reissue Date:			
Applicable to:	BK117 C1 & C2 (EC145)		
HUMS Model:	VXP HUMS		
<b>NOTE:</b>  This STC includes BK117 C1 & C2 and the EC145			
<b>SUMMARY:</b>  Honeywell has developed an automated vibration monitoring system for the Eurocopter BK117/EC145 helicopter. The VXP Kit provides the BK117/EC145 helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.  The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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.  The systems provides: <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> 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:

<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
915-18740	1	BK117/EC145 On-board VXP Installation Kit
917-18742-02	1	BK117/EC145 On-board VXP Application Software

### Option

915-18741	1	On-Board VXP Ground Kit
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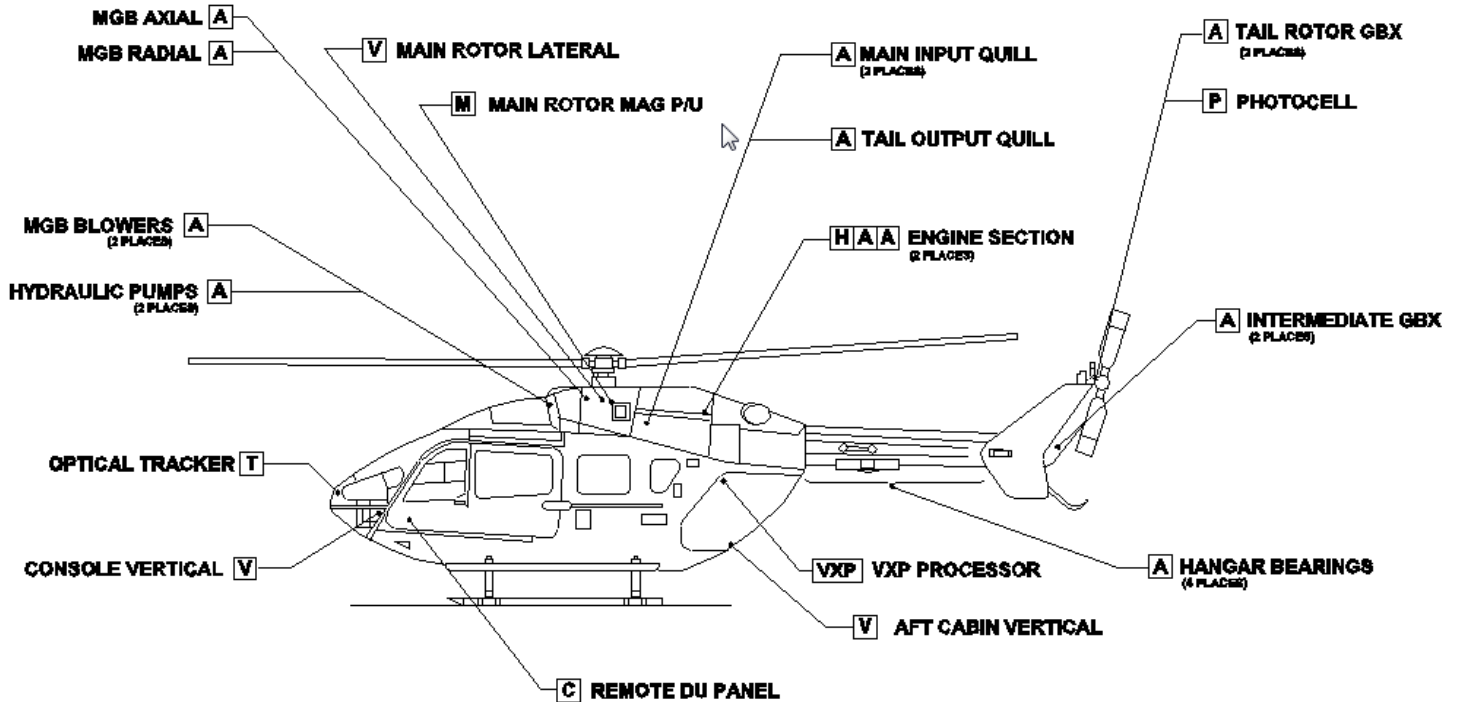
### 915-18741 On-board VXP Ground Kit Consists of:

901-17330-1	1	Display Unit, VXP
902-17317-12a	1	Cable Assembly VXP AU To DU
915-18635	1	Kit, Printer
906-17460	1	Carrying Case VXP Kit (Pelican)
917-15480-19	1	S/W Set, VXP Display Program
768-15612-3	1	Guide, VXP Getting Started
768-15372-4	1	Manual, VXP System Maintenance
610-612	1	Compact Flash For PCMCIA Adapter
610-614	1	Compact USB Flash Card Reader
917-15448-15	1	S/W Set, Vib Review
901-11800-3	1	Fastrak Optical Tracker
903-17283	1	Bracket, Tracker Ec-135/145
902-13279-2	1	Cable Tracker Hardwire 2 Ft.
902-11210-50	1	Cable Velo 50 Ft.
901-7310	1	Velocimeter

## SENSORS:

26 Vibration Accelerometers/Velocimeters, 1 Magnetic Pickup (M/R Tach), 1 Optical Tracker, 1 Photocell and Provisional Wiring for Sky Connect Tracker III as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@Honeywell.com

#### Americas

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#### EMEA

Andy Turner  
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#### APAC


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Email: Kamarudin.Adol@Honeywell.com



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1944 East Sky Harbor Circle  
Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR01401NY</b>		<b>Sikorsky S-61</b>	
STC Holder: Canadian Helicopters Limited 4391 Agar Drive Vancouver International Airport Richmond, BC V7B 1A5 Canada			
STC Issue Date:	Oct 2001		
STC Reissue Date:			
Applicable to:	S-61N / L		
HUMS Model:	VXP HUMS		
NOTE:			
<b>SUMMARY:</b> <p>The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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 &amp; Balance (RT&amp;B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.</p> <p>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.</p> <p>The systems provides:</p> <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p>			

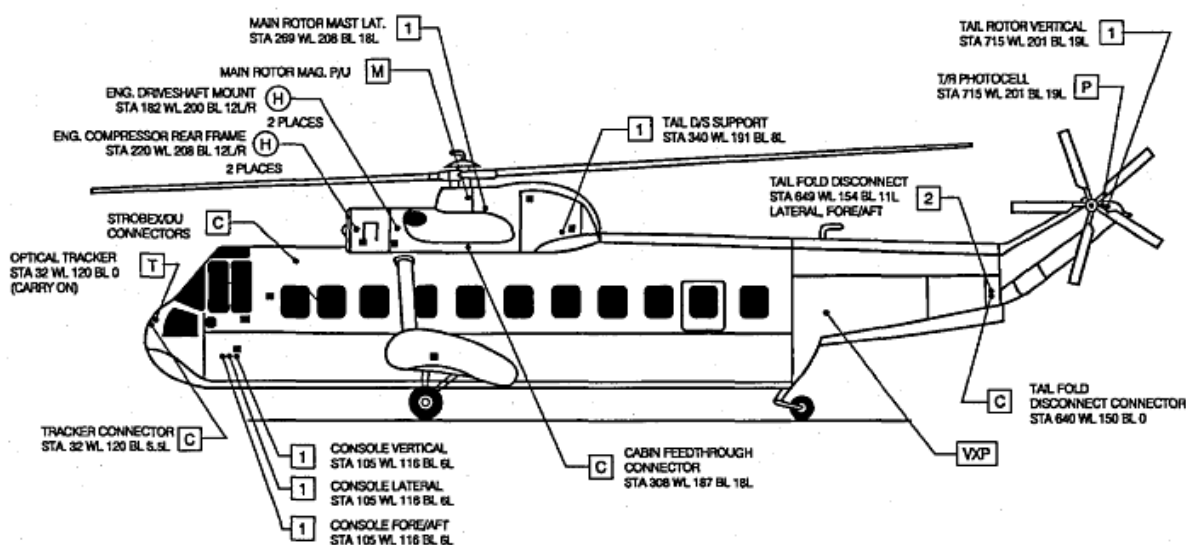
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
901-15175	1	Data Acquisition Unit
915-15702	1	Cabin / Tail Wiring Kit
915-18202	1	Ground Kit
901-11800-3	1	FasTrak Optical Tracker

## SENSORS:

12 Vibration Accelerometers and 2 Tachometers/Photocells as shown below

## INSTALL LOCATIONS:



## OPTIONS:

For ordering and technical information, contact: Canadian Helicopters Limited

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center


U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

<p><b>Americas</b> Paul Paulson Technical Sales Manager Tel: 480-707-0473 Email: PPaulson@Honeywell.com</p>	<p><b>EMEA</b> Andy Turner Technical Sales Manager Tel: +44 1256722282 Email: Andy.Turner@Honeywell.com</p>	<p><b>APAC</b> Kamal Adol Technical Sales Manager Tel: +65-6249-9146 Email: kamarudin.adol@honeywell.com</p>
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1944 East Sky Harbor Circle  
Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02110NY-D</b>		<b>Sikorsky S-76A / S-76C</b>
STC Holder: Sikorsky Global Helicopters, Inc. 110 E Stewart Huston Drive Coatesville, PA 19320		
STC Issue Date:	Jan 2006	
STC Reissue Date:	Oct 2011	
Applicable to:	<b>S-76A/C</b>	
HUMS Model:	VXP HUMS	
<b>NOTE:</b> Data contained within this Factsheet is applicable to S-76A models with STC SH568NE previously installed and S-76C models prior to SN 760511.		
<b>SUMMARY:</b>  The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. 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.  The systems provides: <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution.</li><li>• Engine and drive train vibration monitoring.</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.</li><li>• Operational usage accumulation and recording.</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.</li></ul> 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.		

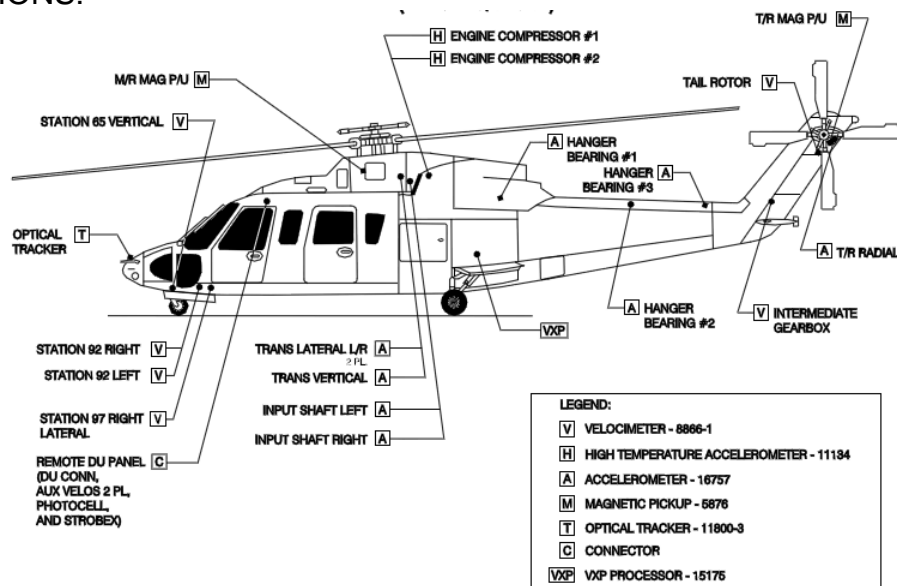
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-17228	1	S-76C VXP Wiring Kit (prior to SN 511)
915-18202	1	Ground Kit
901-11800-3	1	FasTrak Optical Tracker

## SENSORS:

17 Vibration Accelerometers and 2 Tachometers/Photocells as shown below

## INSTALL LOCATIONS:



## OPTIONS:

For ordering or technical information, contact: Sikorsky Global Helicopters

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500

International: 602-365-6500

Email: HUMSSupport@honeywell.com

#### Americas

Paul Paulson

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# HUMS FACT SHEET

Honeywell Aerospace  
1944 East Sky Harbor Circle  
Phoenix, AZ 85034

## *ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS*

STC No.: <b>SR02602NY-D</b>	<b>Sikorsky S-76C</b>
STC Holder: Sikorsky Global Helicopters, Inc. 110 E Stewart Huston Drive Coatesville, PA 19320	
STC Issue Date:	
STC Reissue Date:	
Applicable to:	
HUMS Model:	

**NOTE:**

Data contained within this Factsheet is applicable to S-76C models SN 760511 and subsequent

**SUMMARY:**

This STC provides for the installation of a Model 1239 HUMS system on the S-76C. This can be done as a new installation or as an upgrade from an existing Honeywell EVXP HUMS installation. In either case, the locations of the sensors and data acquisition unit are the same. In addition, two methods are available for getting the off the aircraft – one using a Quick Access Recorder (QAR), the other using a USB memory device.

For the upgrade, the modification provides a mounting tray and adaptor harness so as to allow use of the existing wiring. The upgrade also installs two additional components – a Cockpit Interface Panel and an additional swashplate sensor.

The Model 1239 provides the S-76C helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.

**Functions include:**

- Main and Tail Rotor Track & Balance solution
- Data Management
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention
- Operational usage accumulation and Helicopter Operational Monitoring Program (HOMP) parameters recording
- Operational usage recorded for: engine and air data parameter recording, engine cycle counters, engine start/stops, engine time, takeoff and landings, and rotor on time
- Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment

The Model 1239 allows for the collection of parameters from the aircraft's ARINC 429 data bus including the automatic flight control system, air data and attitude systems, instrument display system, and the digital engine controls.

Operators are utilizing the information from the Model 1239 to enhance safety, reduce maintenance costs, and increase aircraft availability.

## MAJOR COMPONENT PART NUMBERS:

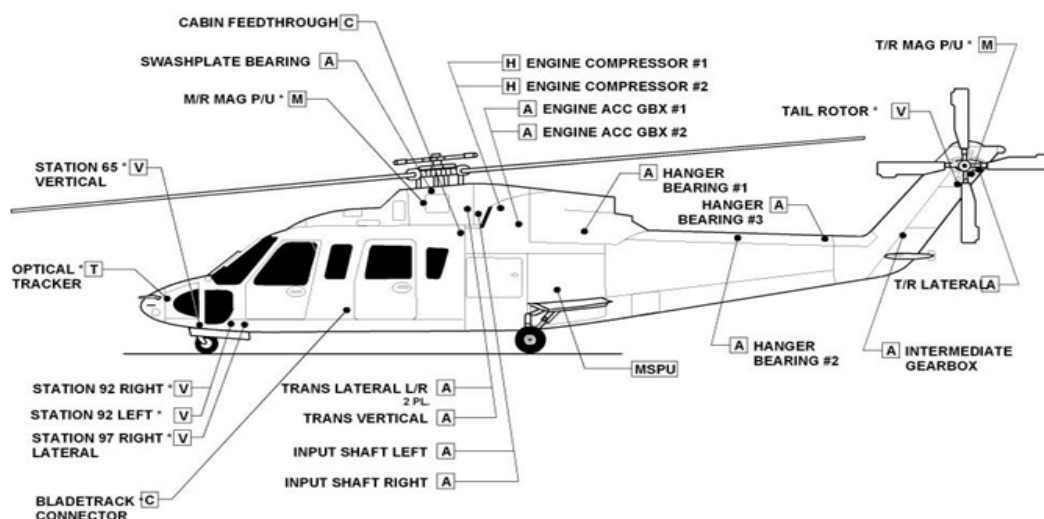
Four different kits are available depending on if you are upgrading from a previously EVXP installation or performing a new installation, and whether using a QAR or USB device.

Part Number	Qty	Description
1239-6000-FA-01	1	New installation kit with QAR
1239-6000-FA-02	1	New installation kit with USB
1239-6000-FA-03	1	Upgrade installation kit from EVXP with QAR
1239-6000-FA-04	1	Upgrade installation kit from EVXP with USB
1239-6050-FA	1	Model 1239 Data Acquisition Unit
1239-6060-SA	1	Cockpit Interface Panel
1239-6070-FA	1	Quick Access Recorder
1239-6042-SA	1	Accelerometer
1239-6003-FA	1	S-76 Ground Kit

## SENSORS:

17 Vibration Accelerometers and 2 Tachometers/Photocells as shown below

## INSTALL LOCATIONS:



## OPTIONS:

The Model 1239 can be connected to the Sky Connect Tracker III to provide real-time exceedance alerts.

For Honeywell technical support, please contact:

### 24/7 Technical Operations Center

U.S./Canada: 855-808-6500  
International: 602-365-6500  
Email: HUMSSupport@honeywell.com

**Americas**  
Paul Paulson  
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Tel: 480-707-0473  
Email: PPaulson@Honeywell.com

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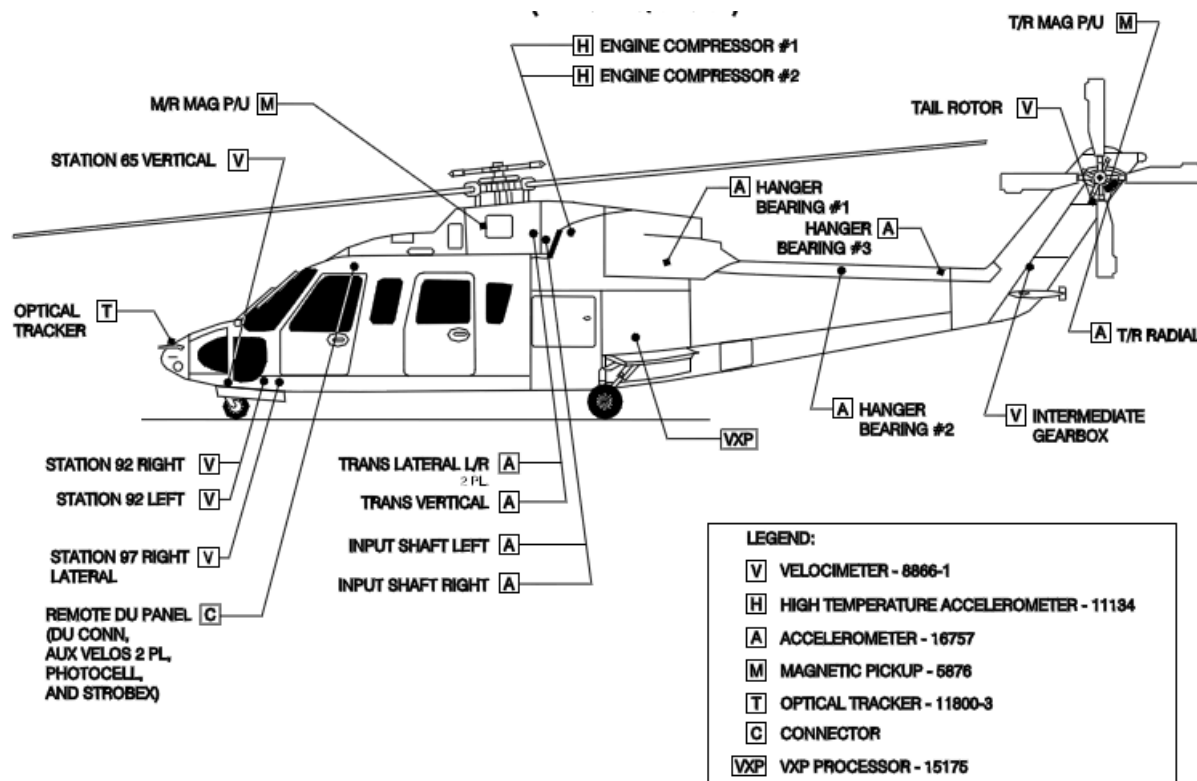
STC No.: <b>SR01135NY-D</b>		<b>Sikorsky S-76C</b>																					
STC Holder: Sikorsky Global Helicopters, Inc. 110 E Stewart Huston Drive Coatesville, PA 19320																							
STC Issue Date:	Jan 2003																						
STC Reissue Date:	Oct 2011																						
Applicable to:	S-76C																						
HUMS Model:	VXP HUMS																						
<b>NOTE:</b>  Data contained within this Factsheet is applicable to S-76C models SN 760511 and subsequent																							
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