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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR02709NY		Agusta A109
STC Holder: Agusta Aerospace 3050 Red Lion Ro Philadelphia, PA	bad	
STC Issue Date: STC Reissue Date: Applicable to: HUMS Model:	Jul 2009 A109E EVXP HUMS	

NOTE:

SUMMARY:

This STC allows for the replacement of the Honeywell VXP installed under STC SR01970NY-D with Honeywell's Enhanced VXP (EVXP). The EVXP provides the Agusta A109 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
- Advanced gearbox diagnostics
- Auto triggered acquisition using regime recognizer
- 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 EVXP allows for the collection of parameters from the aircraft's ARINC 429 data bus. The EVXP also interfaces to the automatic flight control system, air data and attitude systems, instrument display system, and the digital engine controls.

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).

Honeywell MAJOR COMPONENT PART NUMBERS: Part Number Qty Description 901-17700 A109E EVXP Installation Kit 1 SENSORS: 20 Vibration Accelerometers and 2 Tachometers/Photocells as shown below. **INSTALL LOCATIONS:** HANGER BEARLING No. 2 Accelerometer RANGER BEARING No. 1 ACCELERCHETER HANDER Nos. 4.5,5 AND 7 BEARING ACCELERCHETERS OIL COLLER FAN SUPPORT ACCELERONETERS Main Rotor -Magaettic Ptoxup TURBINE ACCELEROMETERS RANGER BEARING No. 3 ACCELEROMETER MAIN ROTOR TRANSMISSION ACCEL SROMETERS TAOL ROTOR MAG. PICKUP DU PANEL INSTALLATEDA \square OPTICAL TRADGR CONNECTOR BRADICE TAN, ROTOR CEARSOX ACCELERONETERS TAIL WAIN DISCONNECT INSTALLATION ۲ WP PROCESSOR 0 ENGINE FIRE VALL CONNECTOR CECKPUT VELOCIMETERS **OPTIONS:**

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com					
Americas	Americas EMEAI APAC				
Paul Paulson	Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager					
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146					
Email: PPaulson@Honeywell.com					

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STC No.: SR01970NY-D		Agusta A109
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606		
STC Issue Date: STC Reissue Date: Applicable to: HUMS Model:	Aug 2005 Jun 2009 A109E 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.

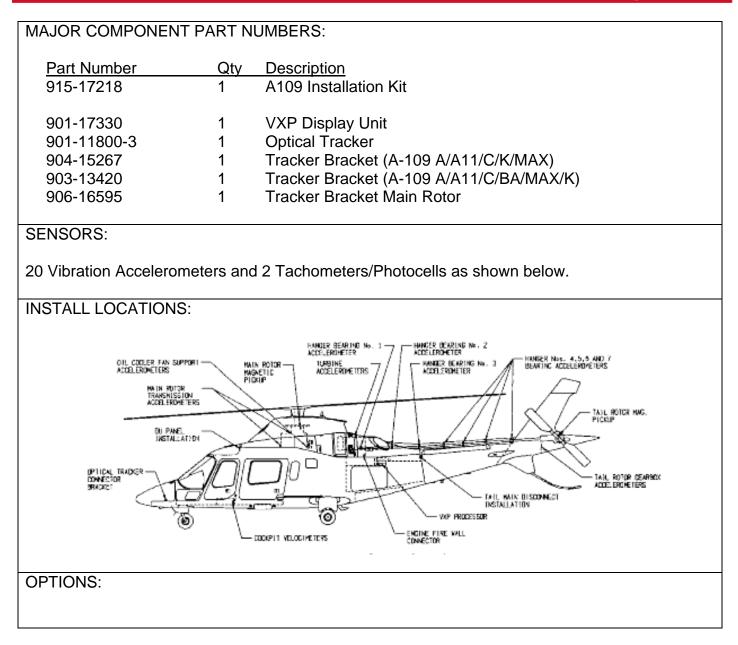
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com					
Americas <u>EMEAI</u> <u>APAC</u>					
Paul Paulson Paul Paulson Kamal Adol					
Technical Sales Manager Technical Sales Manager Technical Sales Manager					
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146					
Email: PPaulson@Honeywell.com					

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STC No.: SR02120NY-D		Agusta Bell AB139	
STC Holder: Honeywell Intern 23500 W. 105 th S Olathe, KS 6606	Street		
STC Issue Date:	Sept 2006		
STC Reissue Date:	Jun 2009		
Applicable to:	AB139		
HUMS Model:	Model VXP		
NOTE	1		

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.

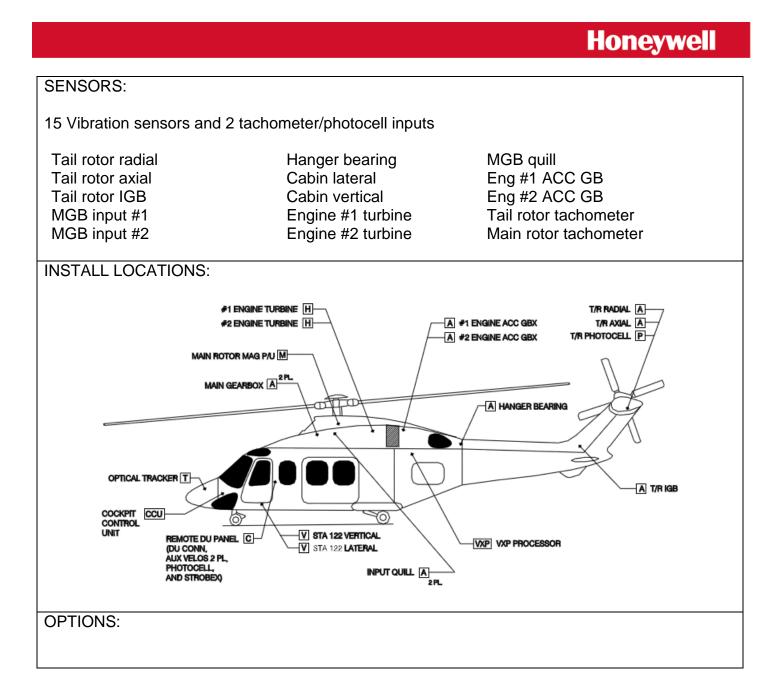
The on-board system automatically acquires and processes sensor data, continuously monitors real-time condition and health indices, records aircraft intelligent information and saves data for post-flight analysis in the ground station.

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:

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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Americas EMEAI APAC					
Paul Paulson	Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager					
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146					
Email: PPaulson@Honeywell.com					

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STC No.: SR01949NY-D		Eurocopter AS365
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606	treet	
STC Issue Date:	Jan 2005	
STC Reissue Date:	Jun 2009	
Applicable to:	AS-365N1/N2/N3	
HUMS Model:	VXP HUMS	

NOTE:

SUMMARY:

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.

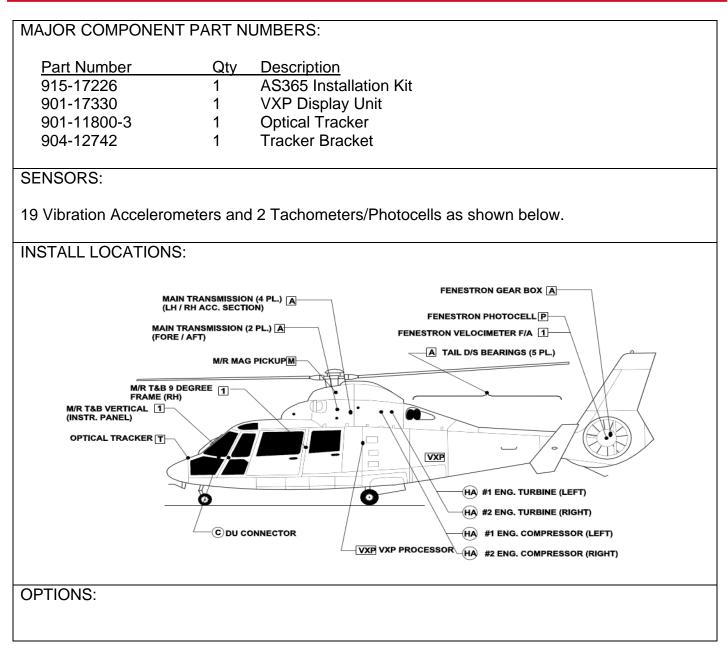
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com					
Americas	Americas EMEAI APAC				
Paul Paulson	Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager	Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146					
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com			

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STC No.: SR03260NY-D		Agusta Westland AW139
STC Holder: Air Concepts Inte 14 Caesar Place Moonachie, NJ		
STC Issue Date:	Mar 2013	GOLYM
STC Reissue Date:		
Applicable to:	AW139	
HUMS Model:	Model 1134	
NOTE:		

SUMMARY:

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).

MAJOR COMPONENT PART NUMBERS:

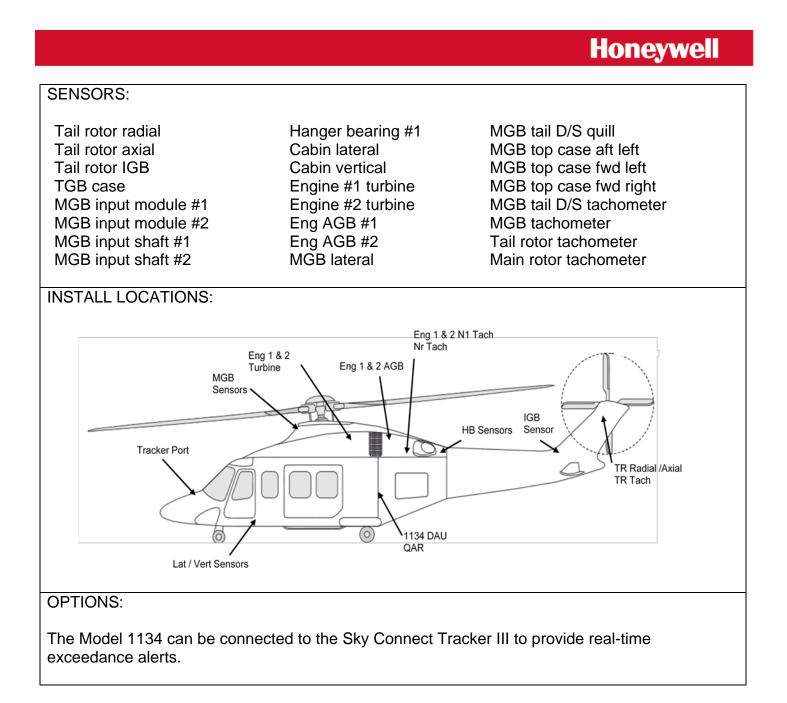
Part Number Qty Description

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)



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com				
Americas EMEAI APAC				
Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com Email: PPaulson@Honeywell.com Email: kamarudin.adol@honeywell.com				

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STC No.: SR01972NY-D			Bell 206L
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606 ⁷	treet		
STC Issue Date:	Oct 2005		- Consider
STC Reissue Date:	Jun 2009		
Applicable to:	206L-4		
HUMS Model:	VXP HUMS		the second s
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.

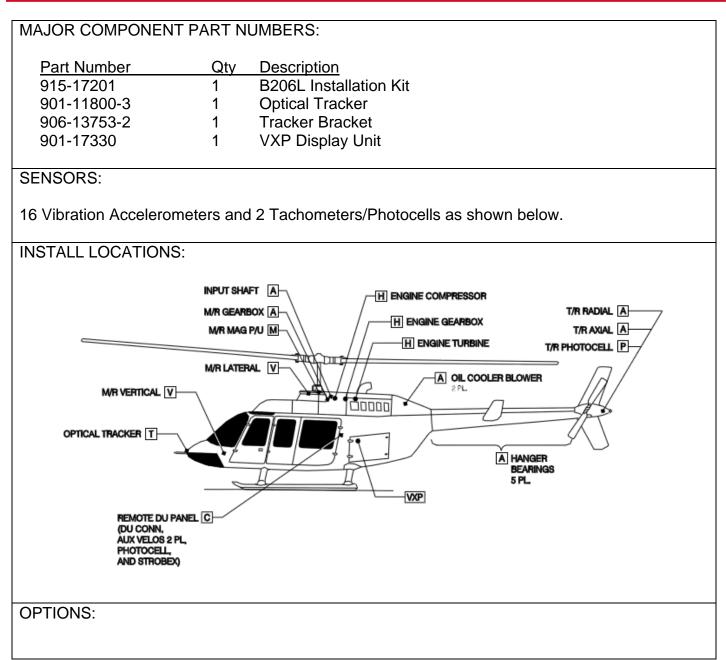
The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & Balance (RT&B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.

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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com				
Americas	EMEAL	APAC		
Paul Paulson	Paul Paulson Paul Paulson Kamal Adol			
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

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STC No.: SR02818N	Y	Bell 212
STC Holder: Aeronautical Acce Bell Helicopter Te 441 Industrial Par Piney Flats, TN 3	xtron Inc k Rd.	
STC Issue Date:	Jun 2010	N212KA
STC Reissue Date:	Jun 2011	A DECEMBER OF THE PARTY OF THE
Applicable to:	B212	
HUMS Model:	1209 HUMS	
NOTE:		

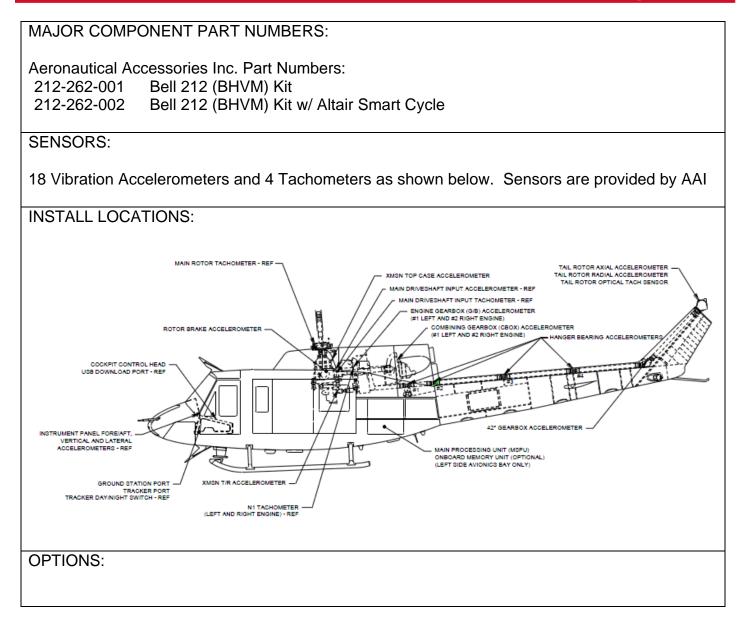
SUMMARY:

System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or sales@aero-access.com or www.aero-access.com/catalog

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.

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).

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

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Americas EMEAI APAC				
Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

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STC No.: SH03-26		Bell 212
STC Holder: Canadian Helico 4740 Agar Drive Richmond, Britis CANADA V7B 1	h Columbia	
STC Issue Date:	March 2005	
STC Reissue Date:		N212KA
Applicable to:	212	
HUMS Model:	VXP HUMS	
NOTE:	•	

SUMMARY:

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.

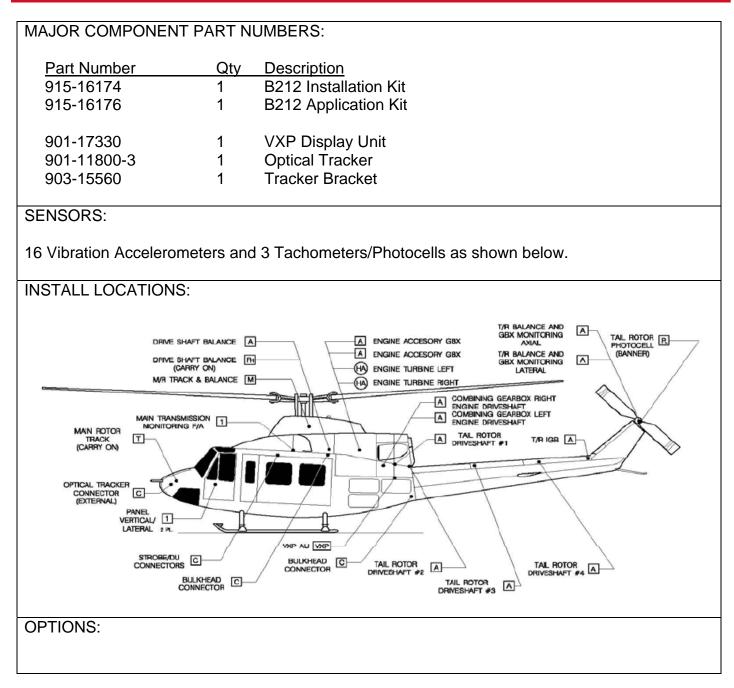
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 212 Maintenance Manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com				
Americas	EMEAI	APAC		
Paul Paulson	Paul Paulson	Kamal Adol		
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

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STC No.: SR01613N	Y-D	Bell 407
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606	treet	
STC Issue Date:	Aug 2004	
STC Reissue Date:	Apr 2013	
Applicable to:	B407	- · · -
HUMS Model:	VXP HUMS	
NOTE		

NOTE:

SUMMARY:

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.

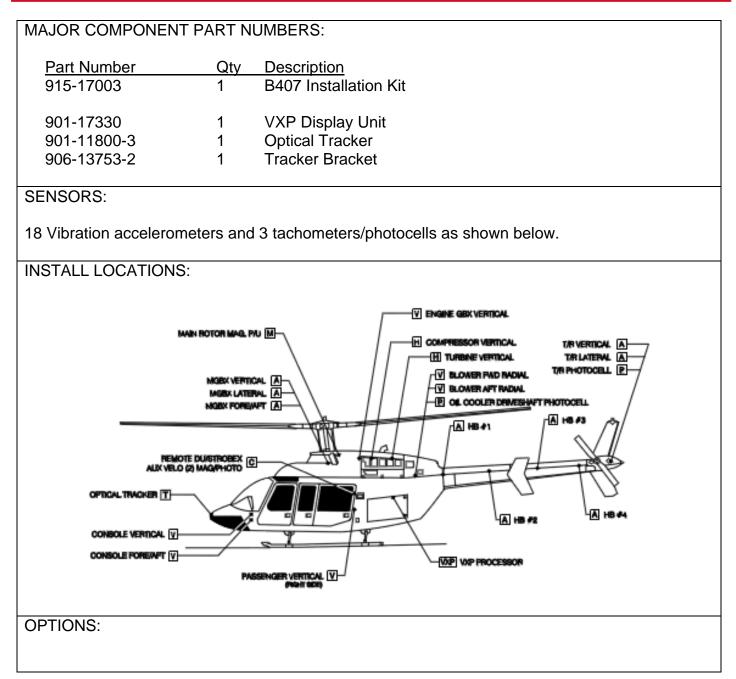
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 407 Maintenance Manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com				
Americas EMEAI APAC				
Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR09373R	C-D	Bell 412
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:		A KOOSED AND A STATE OF A STATE O
Applicable to:	B412, B412EP	LIT , MEL
HUMS Model:	1209 HUMS	
NOTE:	·	

SUMMARY:

System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or sales@aero-access.com or www.aero-access.com/catalog

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.

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).

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

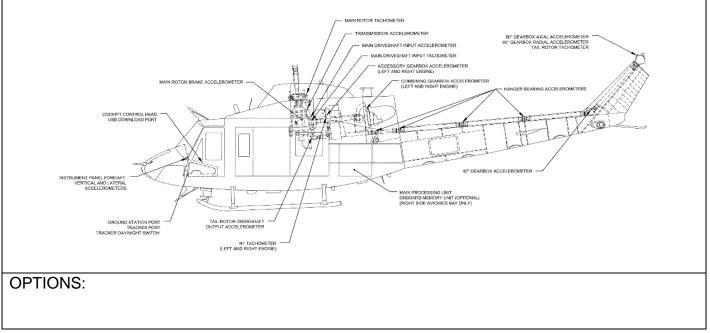
 412-261-0004
 USB Memory Unit Kit

 412-261-0005
 Off Aircraft Ground Kit

SENSORS:

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





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

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Americas	EMEAL	APAC		
Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

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STC No.: SR01591NY-D		Bell 412
STC Holder: Honeywell Interna 23500 W. 105 th St 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.

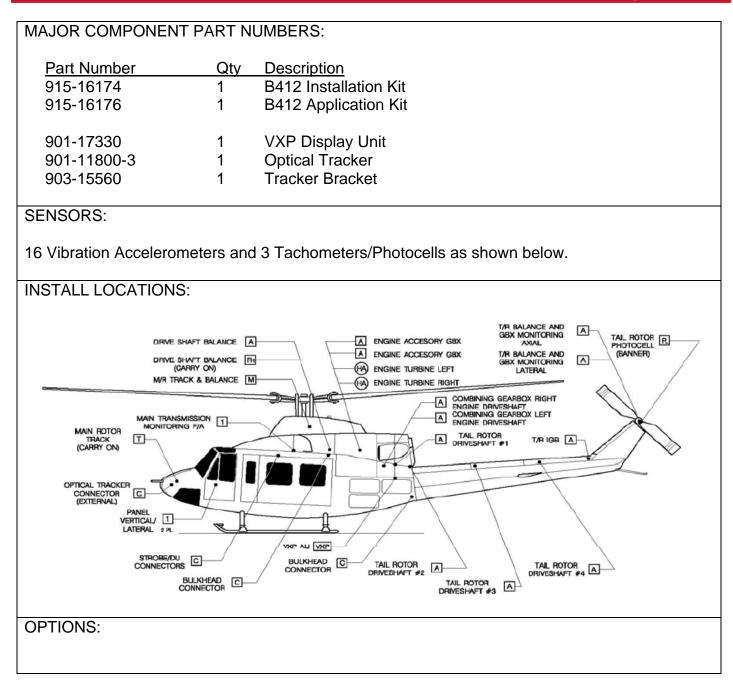
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the BHT 412 Maintenance Manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com				
Americas	EMEAL	APAC		
Paul Paulson Paul Paulson Kamal Adol				
Technical Sales Manager Technical Sales Manager Technical Sales Manager				
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146				
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com		

Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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STC No.: SR01953NY-D		Bell 427
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606	treet	
STC Issue Date:	Mar 2005	B-7748
STC Reissue Date:	Apr 2013	Miny So commando Pres
Applicable to:	427	
HUMS Model:	VXP HUMS	
NOTE		

NOTE:

SUMMARY:

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.

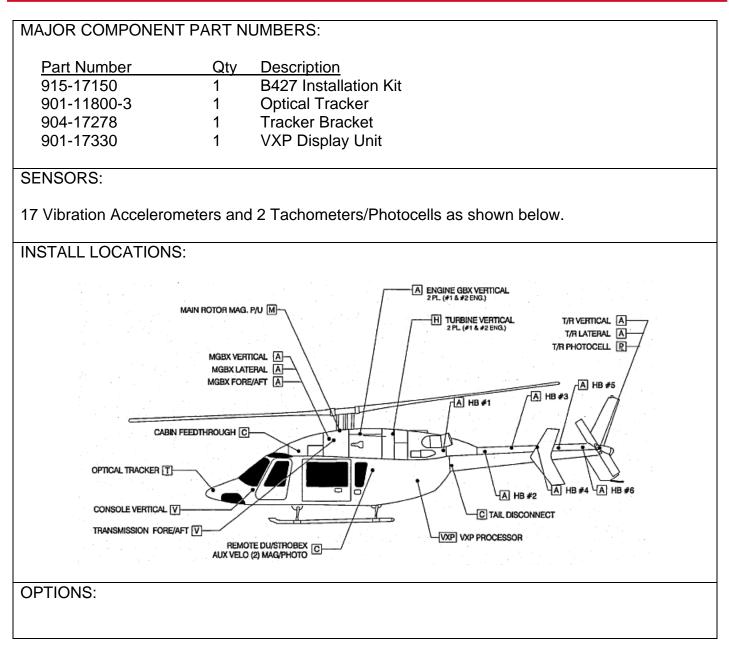
The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & Balance (RT&B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.

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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	EMEAI	<u>APAC</u>
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager Technical Sales Manager Technical Sales Manager		
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146		
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com

Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

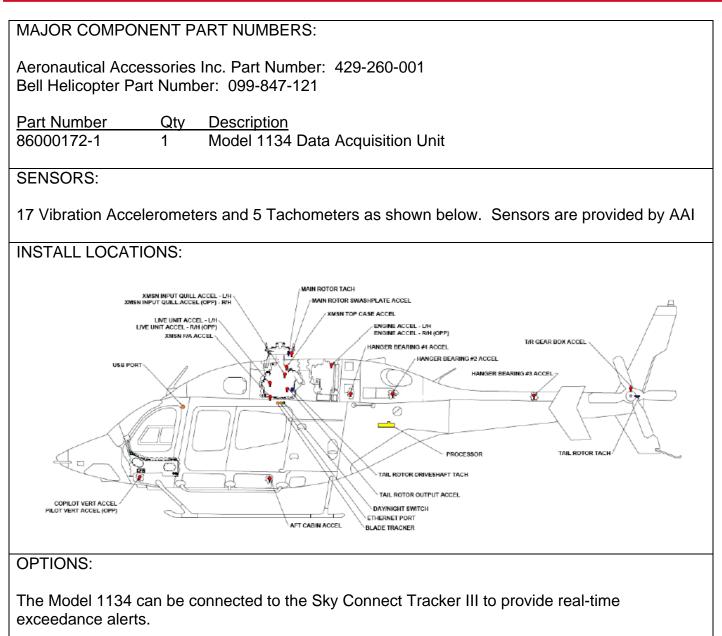
STC No.: SR09536R	C-D	Bell 429
STC Holder: Aeronautical Acce Bell Helicopter Te 441 Industrial Par Piney Flats, TN 3	extron Inc k Rd.	
STC Issue Date:	Dec 2010	wither table
STC Reissue Date:	Feb 2011	
Applicable to:	B-429	1 1 1
HUMS Model:	1134 HUMS	
NOTE:		

SUMMARY:

System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or sales@aero-access.com

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.

- Comprehensive airframe, main and tail rotor, engine, and drivetrain vibration monitoring
- Records aircraft data parameters to support Flight Data Monitoring (FDM) programs
- Automatic recording based on aircraft flight regime no pilot intervention required
- Single point data download for HUMS and FDM data
- Total System Weight approx. 20 lbs
- Installation Time approx. 180 hrs
- Interfaces to aircraft display system and ADIU



For ordering or technical information, contact: Aeronautical Accessories Inc

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	<u>EMEAI</u>	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146		
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com

Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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STC No.: SR01957N	Y-D	Bell 430
STC Holder: Honeywell International Inc 23500 W. 105 th Street Olathe, KS 66061		
STC Issue Date:	Apr 2005	
STC Reissue Date:	Apr 2013	
Applicable to:	430	A COL
HUMS Model:	VXP HUMS	
NOTE:		

SUMMARY:

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.

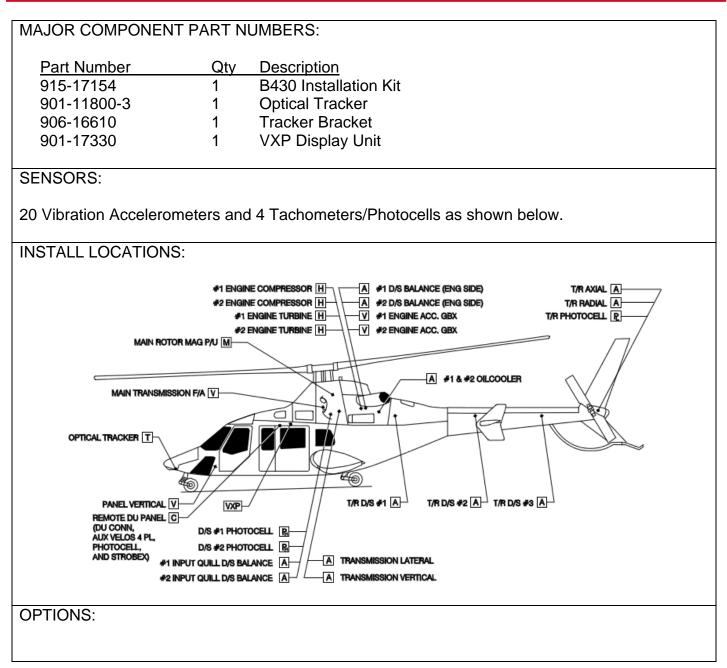
The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & Balance (RT&B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.

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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	EMEAL	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146		
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com

Honeywell Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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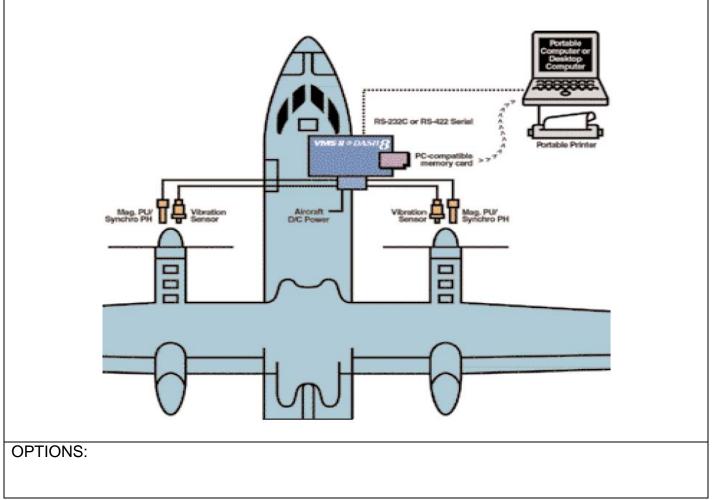
STC No.: ST00782LA		Bombardier Dash-8	
STC Holder:			
Honeywell International Inc			
23500 W. 105 th S			
Olathe, KS 6606			
	•		
STC Issue Date:	March 1999	de me	
STC Reissue Date:	Sept 2007		
Applicable to:	Series 100, 200	, 300	
HUMS Model:	VMS II		
NOTE:			
SUMMARY:			
Vibration Manageme	nt System II (VMS	5 II)	
	•		
For the Bombardier) Dash-8 transport, H	Honeywell has developed a slim, lightweight monitor is mounted out	
		propeller balance data. The VMS II allows for propeller balancing	
	without dedicated maintenance flights, reducing costs and increasing aircraft availability.		
Features of the VMS	Features of the VMS II include:		
Permanent installed on-board system.			
 Easily installs 			
	a portable PC for s		
	, atomatically conocio proponor vibration acta damig revenue ingriter		
		r lower aircraft vibration.	
	•	endable adjustments from unambiguous balance solutions.	
		alysis and early detection of wear or damage.	
Reduces operating costs.			
MAJOR COMPONE	ENT PART NUM	BEKS:	
Part Number	Qtv D	escription	
	, 0		
<u>Part Number</u> 915-14900 915-14898	1 V	escription MS II Prop Balance Monitoring Installation Kit round Support Kit	

Honeywell

SENSORS:

2 vibration sensors and 3 tachometers per engine as shown below.

INSTALL LOCATIONS:



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com			
Americas	EMEAL	APAC	
Paul Paulson	Paul Paulson Paul Paulson Kamal Adol		
Technical Sales Manager Technical Sales Manager Technical Sales Manager			
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146			
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com	

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR02114NY-D		Eurocopter EC135
STC Holder: Honeywell Interna 23500 W. 105 th S Olathe, KS 6606	treet	
STC Issue Date:	May 2006	
STC Reissue Date:	Jun 2009	
Applicable to:	EC135 P2	Variation .
HUMS Model:	VXP HUMS	- AND

NOTE:

Supports either Pratt & Whitney or Turbomeca engines

SUMMARY:

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.

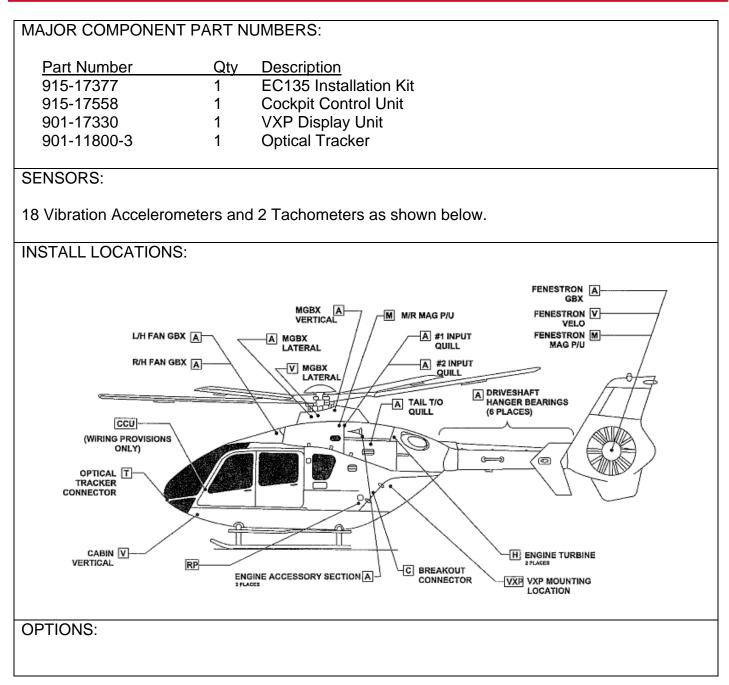
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	EMEAL	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146		
Email: PPaulson@Honeywell.com	Email: PPaulson@Honeywell.com	Email: kamarudin.adol@honeywell.com

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: ST15859L	A-R	Eurocopter EC145
	ns International, LLC (DSI) Iphia Street, Unit C	TEXAS OPS*
STC Issue Date:	Est. July 2015	NTAGTX
STC Reissue Date:		
Applicable to:	BK117 C1 & C2	
	(EC145 T1)	
HUMS Model:	VXP HUMS	
NOTE:		
This STC includes B	K117 C1 & C2 and the E0	C145 T1

SUMMARY:

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.

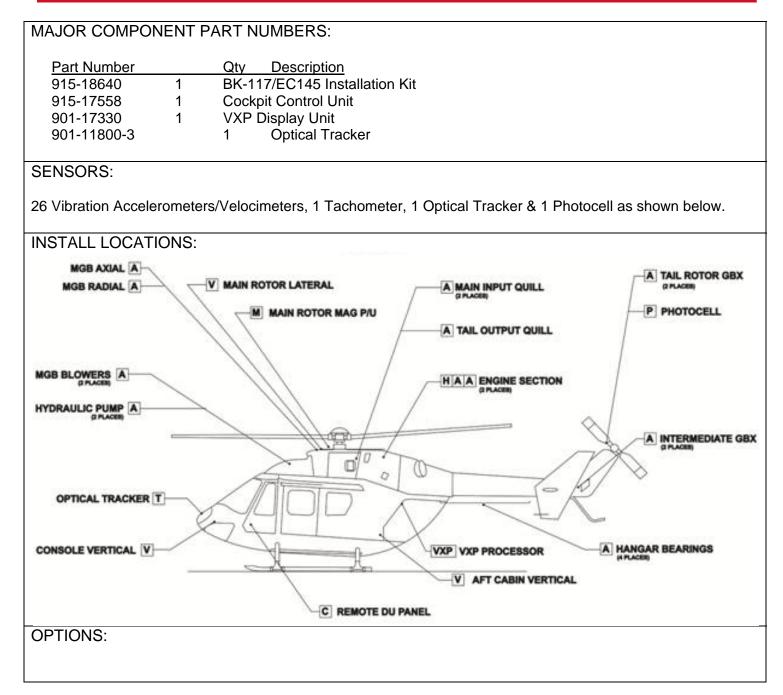
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required 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:

- 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).



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@Honeywell.com			
Americas	EMEAI	APAC	
Paul Paulson	Andy Turner	Kamarudin "Kamal" Adol	
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager	
Tel: 480-707-0473 Tel: +44 1256722282 Tel: +65-6249-9146			
Email: PPaulson@Honeywell.com			

Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR01401NY		Sikorsky S-61
STC Holder: Canadian Helice 4391 Agar Drive Vancouver Inter Richmond, BC Canada	e rnational Airport	EC-FZJ
STC Issue Date:	Oct 2001	
STC Reissue Date:		
Applicable to:	S-61N / L	
HUMS Model:	VXP HUMS	
NOTE:	1	

SUMMARY:

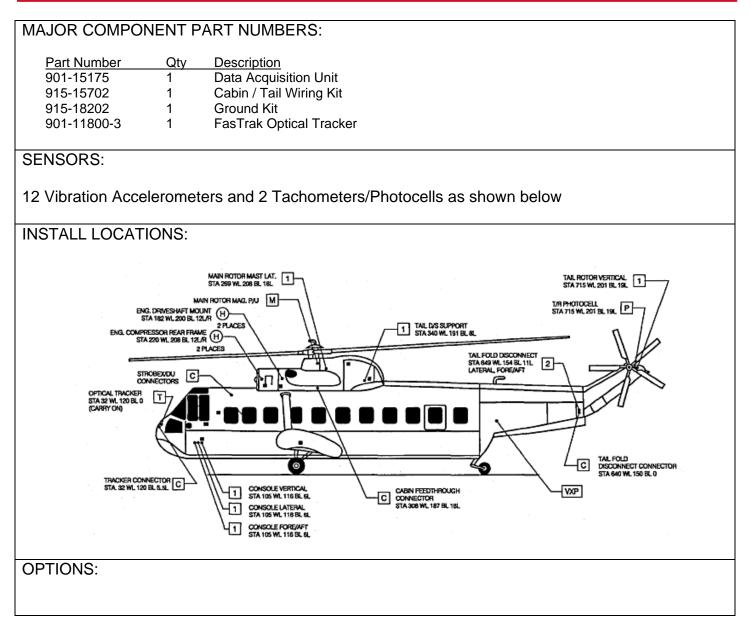
The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required 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).



For ordering and technical information, contact: Canadian Helicopters Limited

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	Americas <u>EMEAI</u>	
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager Technical Sales Manager		Technical Sales Manager
Tel: 480-707-0473 Tel: 480-707-0473		Tel: +65-6249-9146
Email: PPaulson@Honeywell.com Email: PPaulson@Honeywell.com		Email: kamarudin.adol@honeywell.com

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR02110NY-D

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:	S-76A/C
HUMS Model:	VXP HUMS

NOTE:

Data contained within this Factsheet is applicable to S-76A models with STC SH568NE previously installed and S-76C models prior to SN 760511.

SUMMARY:

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:

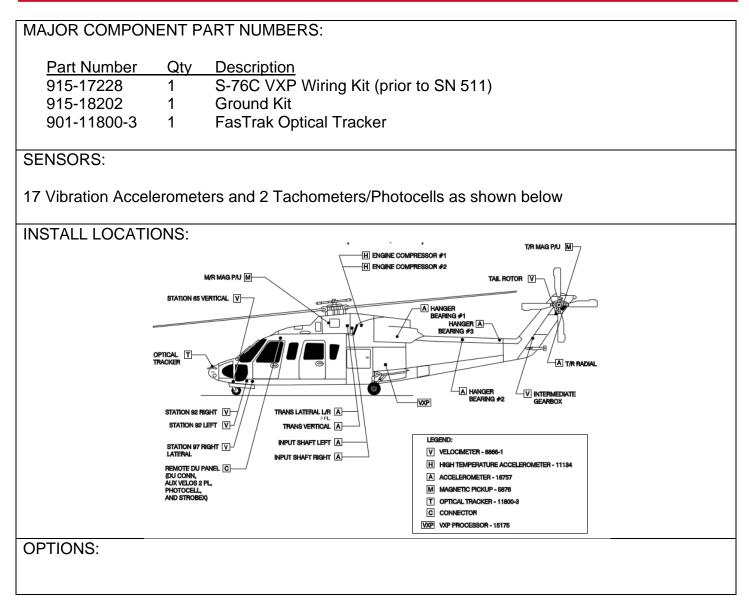
- Rotor Track & Balance solution.
- Engine and drive train vibration monitoring.
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention.
- Operational usage accumulation and recording.
- Integrated and automated aircraft maintenance functions to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

Sikorsky S-76A / S-76C





For ordering or technical information, contact: Sikorsky Global Helicopters

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	EMEAL	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
Tel: 480-707-0473	Tel: 480-707-0473 Tel: 480-707-0473	
Email: PPaulson@Honeywell.com Email: PPaulson@Honeywell.com		Email: kamarudin.adol@honeywell.com

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC Holder:
Sikorsky Global Helicopters, Inc.
110 E Stewart Huston Drive
Coatesville, PA 19320

July 2010

Oct 2011



Applicable to: S-76C HUMS Model: Model 1239 HUMS NOTE:

STC No.: SR02602NY-D

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

SUMMARY:

STC Issue Date:

STC Reissue Date:

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.

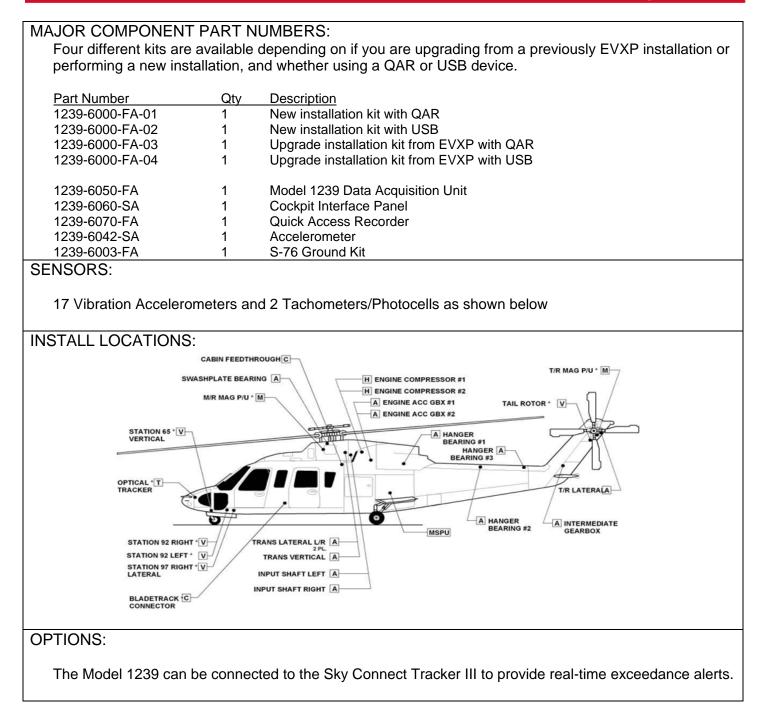
For the upgrade, the modification provides a mounting tray and adaptor harness so as to allow use of the existing wiring. The upgrade also installs two additional components – a Cockpit Interface Panel and an additional swashplate sensor.

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.



24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	<u>EMEAI</u>	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
Tel: 480-707-0473 Tel: 480-707-0473 Tel: +65-6249-9146		
Email: PPaulson@Honeywell.com Email: PPaulson@Honeywell.com Email: kamarudin.adol@honeywell.cor		

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Honeywell

ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

STC No.: SR02430NY-D

STC Holder: Sikorsky Global Helicopters, Inc. 110 E Stewart Huston Drive Coatesville, PA 19320

STC Issue Date:	Aug 2007
STC Reissue Date:	Oct 2011
Applicable to:	S-76C
HUMS Model:	EVXP HUMS



NOTE:

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

SUMMARY:

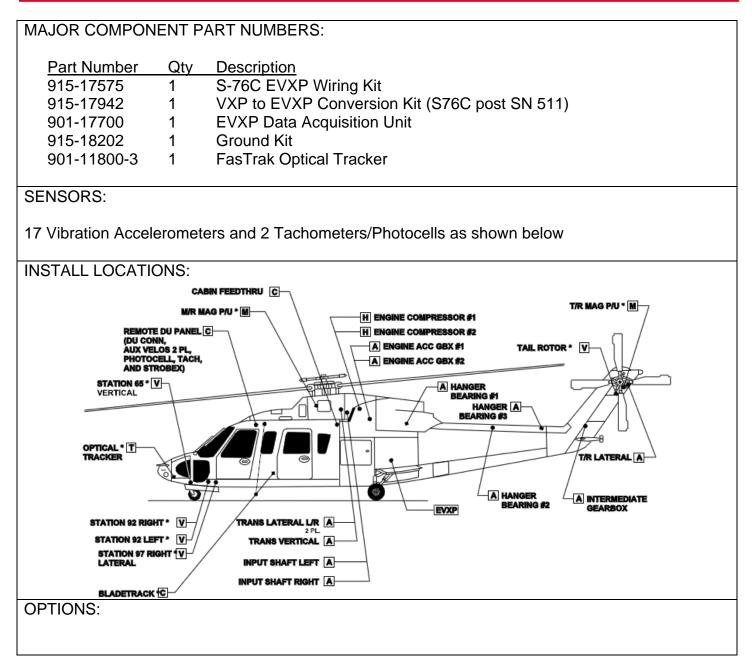
This STC allows for the replacement of the Honeywell VXP installed under STC SR01135NY-D with Honeywell's Enhanced VXP (EVXP). The EVXP provides the S-76C helicopter a comprehensive rotor, engine and drivetrain system vibration monitoring capability.

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

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).



For ordering and technical information, contact: Sikorsky Global Helicopters

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	<u>EMEAI</u>	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager Technical Sales Manager	
Tel: 480-707-0473	Tel: 480-707-0473 Tel: 480-707-0473	
Email: PPaulson@Honeywell.com Email: PPaulson@Honeywell.com		Email: kamarudin.adol@honeywell.com

Honeywell Aerospace 1944 East Sky Harbor Circle Phoenix, AZ 85034

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ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, AND OPERATORS

01135NY-D
01135NY-D

STC Holder: Sikorsky Global Helicopters, Inc. 110 E Stewart Huston Drive Coatesville, PA 19320



HUMS Model: NOTE:

Applicable to:

STC Issue Date:

STC Reissue Date:

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

SUMMARY:

Provides VXP On-Board solution with Rotor Track and Balance (RT&B), and engine and drive train vibration monitoring. 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.

Jan 2003

Oct 2011

VXP HUMS

S-76C

• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment.

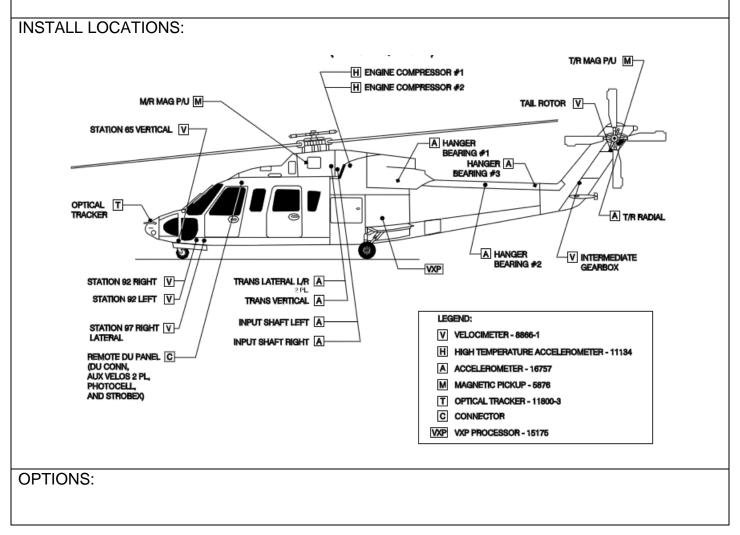
Software provided with the ground station assists maintenance personnel to perform aircraft maintenance and troubleshooting. For QA personnel, the software allows the review of the aircraft condition and health status, perform analysis, trending, and analysis to generate maintenance action (work order).

MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
901-15175	1	Data Acquisition Unit
915-16577	1	Engine / Gearbox Wiring Kit
915-16575	1	Cabin Wiring Kit
915-16576	1	Tail Wiring Kit
915-18202	1	Ground Kit
901-11800-3	1	FasTrak Optical Tracker

SENSORS:

17 Vibration Accelerometers and 2 Tachometers/Photocells as shown below



For ordering and technical information, contact: Sikorsky Global Helicopters

24/7 Technical Operations Center U.S./Canada: 855-808-6500 International: 602-365-6500 Email: HUMSSupport@honeywell.com		
Americas	EMEAI	APAC
Paul Paulson	Paul Paulson	Kamal Adol
Technical Sales Manager	Technical Sales Manager	Technical Sales Manager
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