



2580 East Philadelphia Street, Unit C, Ontario, California, 91761 USA
 909.930.3600 | Toll Free 877.374.5521 | Fax 909.930.3323
 dsi-hums.com

HUMS FACT SHEET

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

STC No.: SR01591NY-D		Bell 412	
STC Holder: Honeywell International Inc 23500 W. 105 th 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:			
<p>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.</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 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.</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"> • 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. <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>			



2580 East Philadelphia Street, Unit C, Ontario, California, 91761 USA
 909.930.3600 | Toll Free 877.374.5521 | Fax 909.930.3323
 dsi-hums.com

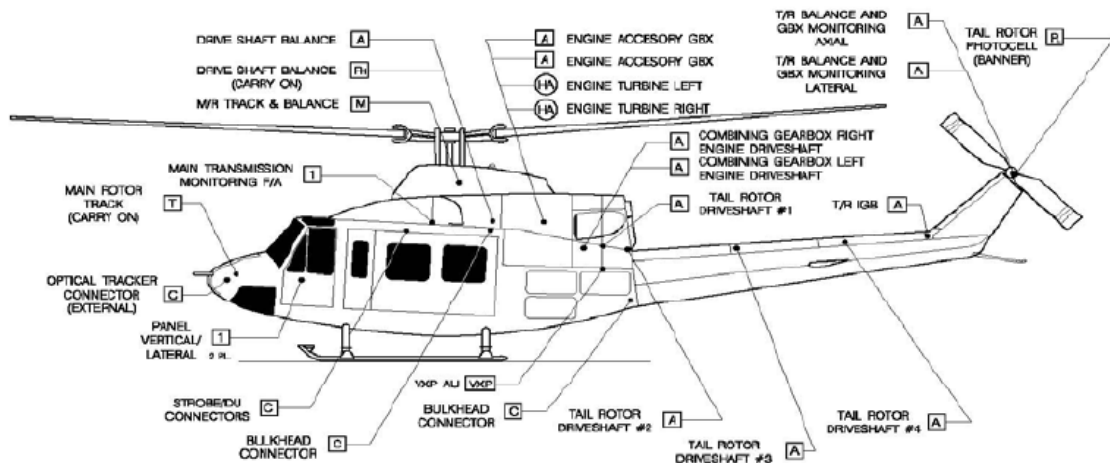
MAJOR COMPONENT PART NUMBERS:

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 technical support and additional information, please contact:

Brian C. Hatcher
 Phone: (909) 930-3600 Ext. 222
 Cell: +1-949-690-2914
brian.hatcher@dsi-hums.com

Neil Seamon
 Phone: (909) 930-3600 Ext. 228
 Cell: +1-949-232-3760
neil.seamon@dsi-hums.com