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# HUMS FACT SHEET

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

|   |          |                 |  |
|---|----------|-----------------|--|
| STC No.: <b>SR01953NY-D</b>   |          | <b>Bell 427</b> |  |
| STC Holder:<br>Honeywell International Inc<br>23500 W. 105 <sup>th</sup> Street<br>Olathe, KS 66061 |          |                 |  |
| STC Issue Date:   | Mar 2005 |                 |  |
| STC Reissue Date:   | Apr 2013 |                 |  |
| Applicable to:  | 427      |                 |  |
| HUMS Model:   | VXP HUMS |                 |  |

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).

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



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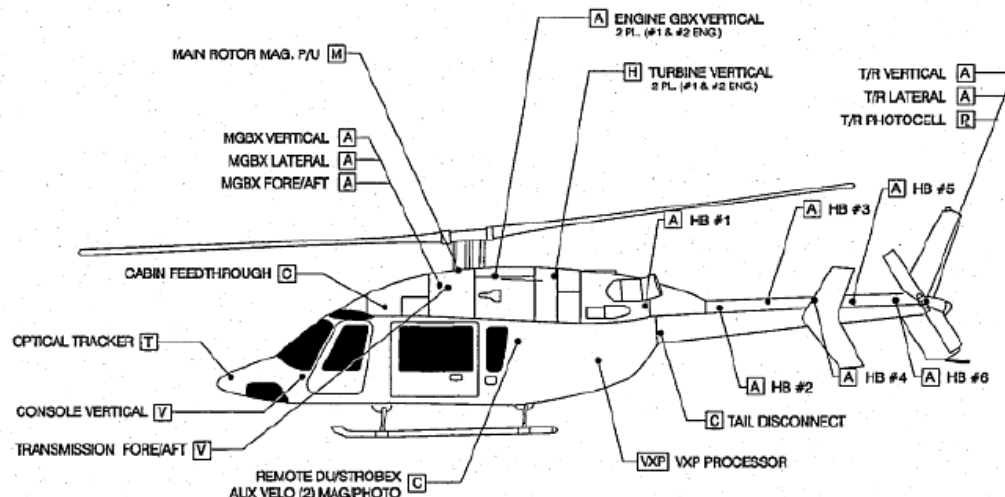
**MAJOR COMPONENT PART NUMBERS:**

| 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 technical support and additional information, please contact:

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