


HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,
AUTHORIZED DISTRIBUTORS, & OPERATORS



STC No.: SR02110NY-D		Sikorsky S-76A / S-76C 
STC Holder: Honeywell International Inc 23500 W. 105th Street Olathe, KS 66061		
STC Issue Date:	2006 JAN	
STC Reissue Date:	2011 OCT	
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: <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 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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STC No.: SR02110NY-D		Sikorsky S-76A / S-76C
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:		
A detailed line drawing of a Sikorsky S-76A/S-76C helicopter in profile, facing left. Various sensor locations are marked with letters in boxes and connected to labels. The labels include: 'H' ENGINE COMPRESSOR #1, 'H' ENGINE COMPRESSOR #2, 'M/R MAG P/U' [M], 'STATION 65 VERTICAL' [V], 'OPTICAL TRACKER' [T], 'STATION 92 RIGHT' [V], 'STATION 92 LEFT' [V], 'STATION 97 RIGHT LATERAL' [V], 'REMOTE DU PANEL (DU CONN, AUX VELOS 2 PL, PHOTOCELL, AND STROBEX)' [C], 'TRANS LATERAL L/R 2 PL' [A], 'TRANS VERTICAL' [A], 'INPUT SHAFT LEFT' [A], 'INPUT SHAFT RIGHT' [A], 'VXP' [VXP], 'HANGER BEARING #1' [A], 'HANGER BEARING #3' [A], 'HANGER BEARING #2' [A], 'T/R MAG P/U' [M], 'TAIL ROTOR' [V], 'T/R RADIAL' [A], and 'INTERMEDIATE GEARBOX' [V]. A legend box in the bottom right corner defines the symbols: [V] VELOCIMETER - 8866-1, [H] HIGH TEMPERATURE ACCELEROMETER - 11134, [A] ACCELEROMETER - 16757, [M] MAGNETIC PICKUP - 5876, [T] OPTICAL TRACKER - 11800-3, [C] CONNECTOR, and [VXP] VXP PROCESSOR - 15175.		
OPTIONS:		

For technical support and additional information, please contact:

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