

MANDATORY SERVICE BULLETIN

NUMBER: SB-009 DATE: 4/20/2009

SUBJECT: GARMIN AHRS VIBRATION TEST

CONCURRENT REQUIREMENTS None

Non

BACKGROUND

The GARMIN G1000 System is equipped with a vibration test that will allow KODIAK operators to determine if the GARMIN System AHRS units will fault under normal vibration levels. The vibration test is built into the AHRS which can be accessed from the GARMIN Configuration Screen. Follow the instructions listed in this Service Bulletin to perform a one-time GARMIN AHRS Vibration Test.

ACTION

MANDATORY SERVICE BULLETIN

Perform a one-time Engine Run Vibration Test to check the Garmin AHRS units for vibration faults. Following the test procedure in this Service Bulletin, the Garmin AHRS units will either pass or fail the test. Please contact Quest Aircraft Company by one of the two following options:

- Fax copy of log book entry showing completion of this Service Bulletin to Quest Aircraft.
- Supply Quest with an e-mail from the individual that conducted the test.

EFFECTIVITY

KODIAK Aircraft Serial Numbers 100-0001 thru 100-0009

COMPLIANCE

Quest Aircraft recommends that this inspection be done at the earliest opportunity, not to exceed 25 hours flight time after receipt of this Service Bulletin.

INDUSTRY SUPPORT INFORMATION None

MANPOWER

The instruction contained in this Service Bulletin will take approximately 20 minutes to run.

COMPLETION

Upon completion of this Service Bulletin, enter the maintenance performed into the appropriate aircraft maintenance records.

Quest Aircraft Company, LLC © Copyright 2008 All Rights Reserved No part of this document may be reproduced, copied, transmitted, disseminated, downloaded or stored in any storage medium, for any purpose without the express prior written consent of Quest Aircraft Company, LLC.

Quest Aircraft Company, LLC 1200 Turbine Drive Sandpoint, ID 83864



IMPORTANT SERVICE BULLETIN

SB-009 Avionics; GARMIN AHRS Vibration Test

INSPECTION INSTRUCTIONS



ENGINE RUN-UP VIBRATION TEST		
Task	Instruction	
1	Start the aircraft engine following the procedures in the Pllots Operating Handbook.	
2	After aircraft engine startup, taxi the aircraft to a suitable area for engine run-up.	
3	Restart all three displays in Configuration mode by first pulling the circuit breakers for each. Then push and hold the ENT key on each display while applying power. Release ENT key after INITIALIZING SYSTEM appears in the upper left corner of the display.	
4	Go to the GRS page group on PFD #1, GRS/GMU CALIBRATION page.	
5	Enter pass code: softkeys 9, 10, 11, 12 by pressing each softkey sequentially.	
6	Select GRS 77 #1. Then select ENGINE RUN-UP TEST and press the ENT key.	
7	Follow the checklist items displayed on the PFD, and press the ENT key as each one is completed and confirmed.	
8	When the CALIBRATE field is blinking, press the ENT key to begin the procedure.	
9	The PFD display instructs the operator to gradually increase power in small increments from idle to takeoff power and back to idle over a period of one to two minutes. ** Perform this engine run test in accordance with standard operating procedures, not exceeding any engine or aircraft limitations.	
10	When the operator has completed the engine run-up and the engine is back to an idle setting, press the ENT key to indicate that the process is complete. When this is done, the TEST COMPLETE field stops blinking.	
11	The PFD informs the operator if the installation has passed or failed the vibration test. If the test fails, the specific measurements causing the failure are identified and numeric values are displayed on the PFD. Use the FMS inner knob to scroll through and view the entire list of failed measurements. If failures are indicated, the engine run-up test may be repeated up to three times. If the test does not pass after three attempts, then the installation must be corrected; contact Quest for further instruction.	
12	Repeat Steps 6-11 for GRS 77 #2.	



KODIAK SERIAL NO: _____

TEST PASSED (CIRCLE RESULT):

YES NO

If test fails, record numbers displayed below:

Engine Run No.	Number Displayed

