

BELL 429

ROTORCRAFT FLIGHT MANUAL

SUPPLEMENT

STANDBY ATTITUDE MODULE KIT

429-704-022
OR S/N 57402, 57403, 57404, 57425, 57430 AND
SUBSEQUENT

CERTIFIED
18 NOVEMBER 2020

This supplement shall be attached to the BHT-429-FM-1 when the Standby Attitude Module kit (429-704-022) is installed. Note that the Standby Attitude Module is included in the basic aircraft configuration for serial numbers 57402, 57403, 57404, 57425, 57430 and subsequent.

Information contained herein supplements information in the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, refer to the basic Flight Manual.

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CHIEF, FLIGHT TEST
FOR
DIRECTOR — NATIONAL AIRCRAFT CERTIFICATION
TRANSPORT CANADA

GENERAL INFORMATION

The Standby Attitude Module kit provides a replacement for the standby analog airspeed, attitude, and altitude indicators. The Standby Attitude Module (SAM) is a self-contained situational awareness instrument that provides attitude, altitude, airspeed and slip indication. The SAM contains a lithium ion battery that recharges when electrical power is applied to the unit and allows the unit to operate if the helicopter electrical power is lost.

Section 1

LIMITATIONS

1-5. CONFIGURATION

The Standby Attitude Module (SAM) software shall be Version 1.1.2.

1-6. WEIGHT AND CENTER OF GRAVITY

Actual weight change will be determined after kit installation. Ballast will then be adjusted, as necessary, to return empty weight CG to within allowable limits.

Section 2

NORMAL PROCEDURES

2-1. INTRODUCTION

Refer to Mid-Continent Instruments and Avionics document, MD302 Standby Attitude Module Pilot's Guide P/N 9017846 rev H, for system operation.

2-4. INTERIOR AND PRESTART CHECK

2-4-A. INTERIOR CHECK

1. Standby module - Condition, set as necessary after self-test.

NOTE

Standby attitude module reverts to internal battery power when both emergency buses power is lost. The unit displays a power down message with a 60 second countdown. If continued operation is desired, turn Control knob to highlight ON and press to select. To turn unit off immediately, turn control knob to highlight OFF and press to select.

Section 3

EMERGENCY AND MALFUNCTION PROCEDURES

3-15. WARNING CAUTION AND ADVISORY LIGHTS/ MESSAGES

MESSAGE	FAULT CONDITION	CORRECTIVE ACTION
Red X displayed on airspeed or altimeter or attitude.	Possible exceedance of internal sensors.	Maintenance action necessary.
Battery icon with red X	Battery capacity is less than 20%	Maintenance action necessary if message persists after charging.
Warning message: "Internal battery may provide less than 60 minutes of operation"	Battery pack may need to be recharged.	Pilot may acknowledge the warning by selecting YES and continue to flight mode. Maintenance action necessary if message persists after charging.
Battery icon in green	Unit is operating on its internal battery.	Minimum of 1 hour operation time remaining. Maintenance action necessary.

Section 4

PERFORMANCE

No change from basic manual.

Section 5

WEIGHT AND BALANCE

No change from basic manual.

