

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.

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.

COPYRIGHT NOTICE
COPYRIGHT 2021
BELL TEXTRON INC. AND
BELL TEXTRON CANADA LIMITED.

ALL RIGHTS RESERVED



POST OFFICE BOX 482 • FORT WORTH, TEXAS 76101

**18 NOVEMBER 2020
REVISION 1 — 11 AUGUST 2021**

NOTICE PAGE

PROPRIETARY RIGHTS NOTICE

These data are proprietary to Bell Textron Inc. Disclosure, reproduction, or use of these data for any purpose other than helicopter operation or maintenance is forbidden without prior written authorization from Bell Textron Inc.

DESTINATION CONTROL STATEMENT

WARNING — This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et. seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et. seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

LOG OF REVISIONS

Original 0 18 NOV 20 Revision..... 1 11 AUG 21

LOG OF PAGES

| PAGE | REVISION NO. | PAGE | REVISION NO. |
|----------------------|-----------------|------|-----------------|
| FLIGHT MANUAL | | | |
| Title..... | 1 | | |
| NP | 0 | | |
| A/B | 1 | | |
| C/D | 1 | | |
| i/ii | 0 | | |
| 1 – 2 | 0 | | |
| 3/4 | 0 | | |

NOTE


Revised text is indicated by a black vertical line. A revised page with only a vertical line next to the page number indicates that text has shifted or that non-technical correction(s) were made on that page. Insert latest revision pages; dispose of superseded pages.

LOG OF TC APPROVED REVISIONS

Original 0..... 18 NOV 20 Revision 1 11 AUG 21

APPROVED

DATE

DocuSigned by:

2BE2FBE348AE416...
Andreas Hartono

8/11/2021

**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.

