

BELL 429

ROTORCRAFT FLIGHT MANUAL

SUPPLEMENT

TRANSPONDER GARMIN GTX 335R

429-899-915

**CERTIFIED
6 NOVEMBER 2020**

This supplement shall be attached to the BHT-429-FM-1 when Garmin GTX 335R Transponder 429-899-915 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.

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ANDREAS HARTONO

06 NOV '20

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

GENERAL INFORMATION

The Garmin GTX 335R transponder is a remotely installed unit controlled by either the GTN 750 or GTN 650. This installation replaces the Garmin GTX 33H ES transponder installation.

The GTX 335R transponder performs the following functions:

- **Transmission of ADS-B out data on 1090 Extended Squitter (1090ES)(1090 MHz), which provides the Automatic Dependent Surveillance - Broadcast (ADS-B) out capability. With ADS-B out capability, position, velocity, and heading information are automatically transmitted to other aircraft and ground stations to improve situational awareness and flight safety (i.e., immediate surveillance of air-to-air traffic).**
- **Traffic Information Service (TIS) - TIS is a ground based service that provides relative location of all Mode A and C transponder equipped aircraft. Traffic information is available to the GTX 335R via a Mode S data link. The GTX 335R then sends the traffic information to the DU EHSI or the GTN 750/650 traffic displays. TIS is disabled whenever a Traffic Collision Avoidance System (TCAS) is installed.**

The Extended Squitter (ES) function of the GTX 335R defaults to the “Enable ES” (ON) position on power up. The “Enable ES” function may be toggled ON/OFF through either GTN 750/650 transponder (XPDR) touch screen.

As applicable to authorized law enforcement agencies, the GTX 335R transponder installation may have the mode A/C ONLY operation enabled. The enablement card to activate the A/C ONLY mode is provided by Garmin following verification of the end users identity.

Section 1

LIMITATIONS

1-1. INTRODUCTION

Statement of Compliance: The Garmin GTX 335R transponder ADS-B Out System has been shown to meet equipment requirements of 14 CFR 91.227.

1-5. CONFIGURATION

Garmin GTX 335R main software shall be version 2.54 (or later).

Garmin GTN 750/650 main software shall be version 6.21 (or later) and GPS software shall be 5.2 (or later).

1-6. WEIGHT AND CENTER OF GRAVITY

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

Section 2

NORMAL PROCEDURES

2-1. INTRODUCTION

For system operation, refer to the following documents:

- Garmin GTX 335/345 Pilot's Guide, publication No. 190-01499-00, Rev F (or later).

NOTE

Refer to the following GTN 750 / 650 Pilot's Guides for transponder control panel operating information.

- Garmin GTN 725/750 Pilot's Guide, publication No. 190-01007-03, Rev R (or later).
- Garmin GTN 625/635/650 Pilot's Guide, publication No. 190-01004-03, Rev P (or later).

2-4. INTERIOR AND PRESTART CHECK

1. Instrument panel — Garmin units: condition; set as required.

NOTE

The Extended Squitter (ES) function of the GTX 335R defaults to the ON position on power up.

To turn the ES function OFF using the GTN 750, deselect the "Enable ES" icon on the XPDR control display.

NOTE

To turn the ES function OFF using the GTN 650, deselect the "Enable ES" icon via the MENU icon of the XPDR control display.

Section 3

EMERGENCY AND MALFUNCTION PROCEDURES

Loss of the interfaced GPS SBAS source or Uncorrected Pressure Altitude source to the GTX 335R may cause transponder to stop transmitting ADS-B Out data.

ADS-B Out transmit failure messages are presented on the Garmin GTN 750/650 displays, when ADS-B Out System is not operational.

Section 4

PERFORMANCE

No change from basic manual.

Section 5

WEIGHT AND BALANCE

No change from basic manual.