

**ADS-B FIELD COMPLIANCE FOR R22, R44, AND R66**

By January 1, 2020, FAA requires helicopters be equipped with ADS-B Out to fly in most controlled airspace. To determine if ADS-B is required in your area visit [www.faa.gov/nextgen/equipadsb](http://www.faa.gov/nextgen/equipadsb).

For ADS-B field compliance, the following configurations, approved under the Type Certificate of Robinson Helicopter Models R22, R44, and R66, can be installed by local Garmin authorized avionics facilities:

**Approved ADS-B compliant Transponders:**

- **GTX 330ES ADS-B OUT**
  - **Requires** one of the GPS Navigators listed below
  - Optional **GDL 88 ADS-B IN** for free traffic and weather in USA
    - ◆ Displayed on GPS Navigator, or MFD\*\*
  
- **GTX 335, GPS\* ADS-B OUT**
  - Built-in GPS (stand-alone, separate GPS unit not required)
  - Dedicated GPS antenna required
  
- **GTX 345, GPS\* ADS-B IN & OUT**
  - Built-in GPS (stand-alone, separate GPS unit not required)
  - Dedicated GPS antenna required
  - Free Traffic and Weather in USA
    - ◆ Displayed on GPS Navigator, MFD\*\*, and/or tablet
  - Bluetooth to Personal Electronic Device

Approved Garmin GPS Navigators:

	<b>GPS 400W</b>	<b>GNC 420W</b>	<b>GNS 430W</b>	<b>GPS 500W</b>	<b>GNS 530W</b>	<b>GTN 625</b>	<b>GTN 635</b>	<b>GTN 650</b>	<b>GTN 725</b>	<b>GTN 750</b>
R22	X	X	X			X	X	X		
R44	X	X	X	X	X	X	X	X	X	X
R66	X	X	X	X	X	X	X	X	X	X

\* GTX 335 and 345 are made by Garmin either with or without internal GPS. Robinson TC approvals are only for the internal GPS configuration.

\*\* ADS-B traffic and weather can be displayed on G500H not ASPEN.

**NOTE**

Earlier helicopters with King KY196A or KY197A COM transceivers may require [KI-184-1 \(14v\)](#) or [KI-184-2 \(28V\)](#). Filter Installation Kit if objectionable transponder-reply noise is heard in headset after ADS-B Out upgrade.

Robinson ADS-B Transponder Settings:

Parameter	Setting
Flight ID and ICAO Address	<p>For US aircraft, use US tail number. Transponder will recognize tail number and perform appropriate hex/octal conversions for ICAO address.</p> <p>For non-US aircraft, a hex address will need to be entered. The aircraft registration database for the country of registry should be able to provide the ICAO hex address associated with a registration number.</p>
Emitter Category	Rotor or Rotorcraft Max Airspeed ≤ 150 kt
SIL and SDA	Set GPS Integrity to 1e-07. System will automatically output correct SIL and SDA (to be verified during equipment check described in <a href="#">FAA AC 20-165B</a> )
Aircraft Length and Width	Length ≤ 15 meters, Width ≤ 23 meters
GPS Antenna Offset	Lateral = 0 meters, Longitudinal = 4 meters
<p>For all other parameters, follow instructions contained in Garmin installation manuals and screen prompts on equipment configuration screens during installation. If there is a question regarding a setting, contact RHC Technical Support: <a href="https://robinsonheli.com/technical-support">https://robinsonheli.com/technical-support</a>.</p>	