

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.

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:

	GPS 400W	GNC 420W	GNS 430W	GPS 500W	GNS 530W	GTN 625	GTN 635	GTN 650	GTN 725	GTN 750
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 FAA AC 20-165B)
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: https://robinsonheli.com/technical-support.</p>	