

**Approved Model List (AML)**

**for Automatic Dependent Surveillance – Broadcast (ADS-B) Out & In System  
using the Garmin GTX 3X5 Transponder and a Qualified Position Source**

**STC No. SR00925DE**

FAA Approved: See Revision Log

Todd Dixon, Manager

Denver ACO Branch

Revision C: March 24, 2020

**FAA APPROVED MODEL LIST**  
**For Garmin GTX 3X5 ADS-B Out & In System Airworthiness Approval**

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**1. Revision Log**

<b>Revision</b>	<b>Pages</b>	<b>Description</b>	<b>FAA Approval</b>	<b>Date</b>
IR	ALL	Initial Release	<u>/s/ Michael R. Giambrocco</u> ODA Administrator ODA-635841-NM Air Methods Corporation  Date: <u>Dec 26, 2018</u>	Original Issue  Dec 26, 2018
A	All 5-6  7	Updated footer. Added eligible models and MDL Revision. AFMS did not change from Rev IR of this document. Corrected § 29.773 amendment number.	<u>/s/ Todd Dixon</u> Todd Dixon, Manager Denver ACO Branch Compliance and Airworthiness Division Federal Aviation Administration  Date: <u>May 31, 2019</u>	May 31, 2019
B	All 5-6	Updated footer. Corrected typo in Initial Approval column, was “Revision B” is “Revision A”.	<u>/s/ Cynthia Bradley for</u> Todd Dixon, Manager Denver ACO Branch Compliance and Airworthiness Division Federal Aviation Administration  Date: <u>June 13, 2019</u>	June 13, 2019
C	All Cover Tbl 5	Updated footer. Removed company name. Inserted row 15 (S-76).	<u>/s/ Cynthia Bradley for</u> Todd Dixon, Manager Denver ACO Branch Compliance and Airworthiness Division Federal Aviation Administration  Date: <u>March 24, 2020</u>	March 24, 2020

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## **2. Introduction**

This document is the Federal Aviation Administration (FAA) Approved Model List (AML) for Supplemental Type Certificate (STC) Number SR00925DE, for installing Automatic Dependent Surveillance – Broadcast (ADS-B) Out System (with optional ADS-B In functionality) using the Garmin GTX 335R and GTX 345R Transponders plus a qualified Global Position System (GPS) with Wide Area Augmentation System (WAAS) into eligible Part 29 rotorcraft. Qualified ADS-B equipage is listed in Section 4, and approved models are listed in Section 5.

This AML is only applicable to the 14 CFR, Part 29 rotorcraft listed in Section 5. Installations in 14 CFR Part 23, Part 25, and Part 27 aircraft are not authorized under this AML.

Revisions to the AML must be coordinated between the STC holder and the responsible Aircraft Certification Office (ACO) and require FAA approval.

### **2.1. Prerequisites**

This AML installs assumes the following equipment is already installed on each rotorcraft eligible for this proposed modification. The equipment must be properly linked to meet the intended function for the system, as certified under this AML approval.

1. Transponder system, including
  - i. Standalone transponder, and,
  - ii. Technical Standard Order (TSO) Approved transponder antenna which meets the requirements of TSO-C66, TSO-C112, TSO-C74.
2. A TSO C88 digital altitude encoder.

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## **2.2. Specific Limitations**

The following limitations apply to this AML STC:

1. The Garmin GTX 3X5/3X5R transponder(s) must be replacing existing transponder(s) on a one for one basis. No new transponder installations are allowed.
2. Installation of the following equipment is outside the scope of this AML STC.
  - i. GTX 3X5/3X5R transponder antenna(s),
  - ii. New or replacement GPS antenna,
  - iii. Digital Barometric Altitude source.
3. This AML STC does NOT allow or provide instructions for installation on rotorcraft equipped with Traffic Collision Avoidance System (TCAS) II.
4. ADS-B In data is for situational awareness only if ADS-B data is displayed on an onboard display, as defined by these instructions, or on a Portable Electronic Device (PED).
5. Use of the wireless equipment is subject to 14 CFR § 91.21, 121.306, 125.204 and 135.144 regulations (where applicable).
6. This AML STC does NOT allow or provide instructions for Enhanced Surveillance Mode functionality.
7. Use of transponder formats other than those identified within the STC Master Drawing List is not allowed.

## **3. Certification Basis**

The certification basis for each qualified model found in Section 5 is specified in the type certificate data sheet (TCDS) and modified by the amendment levels noted in APPENDIX A.

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**4. Equipage**

Approved equipment pairing for the models listed in this AML is identified in **Table 1**.

**Table 1 Approved Transponder/GPS Pair**

Configuration Number	Transponder* (Position, Model, and Part Number) (See Note 4)	Position Source	Transponder Control
1A	Transponder GTX 345 (011-03302-00)	External GNS Series (See Table 2)	GTX 345
1B	Transponder GTX 345 (011-03302-00)	External GTN Series (See Table 3)	GTX 345
1C	Transponder GTX 345 (011-03302-40)	Internal	GTX 345
2A	Transponder Position #1 GTX 345 (011-03302-00)	External GNS Series (See Table 2)	GTX 345
	Transponder Position #2 GTX 335 (011-03300-00)		GTX 335
2B	Transponder Position #1 GTX 345 (011-03302-00)	External GTN Series (See Table 3)	GTX 345
	Transponder Position #2 GTX 335 (011-03300-00)		GTX 335
2C	Transponder Position #1 GTX 345 (011-03302-40)	Internal	GTX 345
	Transponder Position #2 GTX 335 (011-03300-40)		GTX 335
3A	Transponder Position #1 GTX 345R (011-03303-00)	External GNS Series (See Table 2)	Gables G7614
	Transponder Position #2 GTX 335R (011-03301-00)		
3B	Transponder Position #1 GTX 345R (011-03303-00)	External GTN Series (See Table 3)	GTN 6XX/7XX Series
	Transponder Position #2 GTX 335R (011-03301-00)		
3C	Transponder Position #1 GTX 345R (011-03303-40)	Internal	Gables G7614
	Transponder Position #2 GTX 335R (011-03301-40)		

*\*The GTX Series equipment listed must be running Main System software version 2.02 or later, ADS-B System software version 2.01, and GPS software version 6.0 or later.*

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**Table 2: Qualified Garmin GNS Series GPS/WAAS Position Sources**

<b>Model Number</b>	<b>Part Number*</b>	<b>Description</b>
GNS 430W	011-01060-( )	GPS/WAAS, VHF COM (10W) & VOR, & VHF NAV
GNS 430AW	011-01061-( )	GPS/WAAS, VHF COM (16W) & VOR, & VHF NAV
GPS 500W	011-01062-( )	GPS/WAAS functionality only
GPS 500W TAWS	011-01063-( )	GPS/WAAS with Terrain Awareness & Warning System
GNS 530W	011-01064-( )	GPS/WAAS, VHF COM (10W) & VOR, & VHF NAV
GNS 530W TAWS	011-01065-( )	GPS/WAAS, VHF COM (10W) & VOR, & VHF NAV with Terrain Awareness & Warning System
GNS 530AW	011-01066-( )	GPS/WAAS, VHF COM (16W) & VOR, & VHF NAV
GNS 530AW TAWS	011-01067-( )	GPS/WAAS, VHF COM (16W) & VOR, & VHF NAV with Terrain Awareness & Warning System

*\*(Main GNS software version 5.30 or above and GPS software version 5.0 or above are required)*

**Table 3: Qualified Garmin GTN Series GPS/WAAS Position Sources**

<b>Model Number</b>	<b>Part Number*</b>	<b>Description</b>
GTN 625	011-02254-( )	GPS/WAAS functionality only
GTN 635	011-02255-( )	GPS/WAAS, VHF COM (16W)
GTN 650	011-02256-( )	GPS/WAAS, VHF COM (16W) ,& VHF NAV & LOC/GS
GTN 725	011-02281-( )	GPS/WAAS functionality only
GTN 750	011-02282-( )	GPS/WAAS, VHF COM (16W) & VHF NAV & LOC/GS

*\*(Main GTN software version 6.11 or above and GPS software version 5.00 or above are required)*

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**5. Approved Model List**

Item	Aircraft Make	Aircraft Model	TC Data Sheet	Certification Basis	Master Drawing List/Date	RFM Supplement Number/Date	Instructions for Continued Airworthiness	Notes	Initial Approval / Amendment Date
1.	Airbus Helicopters Deutschland GmbH (AHD)	MBB-BK 117 A-1, MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, MBB-BK 117 B-2, MBB-BK 117 C-1, MBB-BK 117 C-2.	H13EU	FAR 21.29 and FAR 29 plus amendments 29-1 through 29-14 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018
2.	Airbus Helicopters	SA-365N1, AS-365N2,	H10EU	FAR 21.29 and FAR 29 plus amendments 29-1 through 29-16 except FAR 29.397 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018
3.	Airbus Helicopters	AS 365 N3	H10EU	FAR 21.29 and FAR 29 plus amendments 29-1 through 29-16. In addition FAA Special Condition number 29-002-SC for HIRF per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018
4.	Airbus Helicopters	EC 155B, EC155B1	H10EU	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
5.	Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, EC225LP	H4EU	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
6.	Bell Helicopter Textron Inc	212, 412	H4SW	FAR Part 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018

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7.	Bell Helicopter Textron, Inc.	205A, 205A-1	H1SW	CAR 7 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018
8.	Bell Helicopter Textron	222, 222B, 222U, 230	H9SW	FAR Part 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev E, dated 11/16/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Initial Approval, Dec 26, 2018
9.	Bell Helicopter Textron	430	H9SW	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
10.	Columbia Helicopters	Model 234	H9EA	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
11.	Columbia Helicopters	107-II	1H16	CAR 7 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
12.	Erickson Air-Crane	S-64E, S-64F	H6EA	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
13.	Leonardo S.p.A.	AW139	R00002RD	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019
14.	Sikorsky	S-61L, S-61N, S-61R, S-61NM	1H15	CAR 7 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019



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15.	Sikorsky	S-76A, S-76B, S-76C	H1NE	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev K, dated 1/16/2020, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev IR, dated 9/13/2018, or later FAA approved revision.	(1)	Revision C, March 24, 2020
16.	Sikorsky	S-92A	R00024BO	14 CFR 29 per TCDS	Peregrine Doc. No. E-AM-17-0002 Rev J, dated 5/22/2019, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0009 Rev IR, dated 12/26/2018, or later FAA approved revision.	Peregrine Doc. No. E-AM-17-0008 Rev A, dated 5/27/2019, or later FAA approved revision.	(1)	Revision A, May 31, 2019

**NOTES:**

(1) Eligible serial numbers are those that have been examined, tested, and found to comply with the type design approved under U.S. TC.

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**Appendix A: All Models**

Based on 14 CFR § 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis is as follows:

- a. As determined by the Type Certificate Data Sheet (TCDS) of the aircraft for parts **not changed or not affected** by this STC.
- b. Regulations at the amendment levels listed in Table 1 below for parts **changed or affected** by the STC since the reference date of application, January 2018.

**Table 4: Certification Basis Including Amendments**

Regulations	Amdt.	Regulations	Amdt.
§ 29.301	29-0	§ 29.777	29-0
§ 29.303	29-0	§ 29.853(a)(4)	29-23
§ 29.305(a)	29-0	§ 29.1301(a)(b)(c)(d)	29-0
§ 29.307(a)	29-30	§ 29.1309(a)(b)(c)(d)(e)(1)(2)(3)(i)(f)(g)	29-53
§ 29.337(a)	29-30	§ 29.1316(b)	29-53
§ 29.341	29-0	§ 29.1317(c)	29-49
§ 29.471	29-0	§ 29.1321(a)(f)(g)	29-21
§ 29.561(a)(b)(3)	29-38	§ 29.1322	29-12
§ 29.601(a)	29-0	§ 29.1351(a)	29-42
§ 29.603	29-17	§ 29.1353(a)(b)	29-15
§ 29.605(a)	29-17	§ 29.1357(a)(c)(d)(e)	29-24
§ 29.607(a)	29-5	§ 29.1359(a)(c)	29-42
§ 29.609	29-0	§ 29.1381	29-0
§ 29.610	29-53	§ 29.1431	29-0
§ 29.611(a)(b)	29-0	§ 29.1501	29-15
§ 29.613	29-30	§ 29.1529	29-20
§ 29.619(b)(1)	29-0	§ 29.1541	29-0
§ 29.625(a)(b)	29-42	§ 29.1555(a)	29-24
§ 29.671(a)	29-24	§ 29.1581(a)(b)(d)	29-15
§ 29.771(a)	29-24	§ 29.1583(c)(e)	29-24
§ 29.773(a)(1)	29-56	§ 29.1585(a)	29-24