

Prohibition of Retaining Bolt and Lockplate

(h) Do not install the gear retaining bolt and lockplate that were removed in paragraph (g) of this AD, into any engine.

Definition of Propeller Strike

(i) For the purposes of this AD, a propeller strike is defined as follows:

(1) Any incident, whether or not the engine is operating, that requires repair to the propeller other than minor dressing of the blades.

(2) Any incident during engine operation in which the propeller impacts a solid object that causes a drop in revolutions per minute (RPM) and also requires structural repair of the propeller (incidents requiring only paint touch-up are not included). This is not restricted to propeller strikes against the ground.

(3) A sudden RPM drop while impacting water, tall grass, or similar yielding medium, where propeller damage is not normally incurred.

(j) The preceding definitions include situations where an aircraft is stationary and the landing gear collapses causing one or more blades to be substantially bent, or where a hanger door (or other object) strikes the propeller blade. These cases should be handled as sudden stoppages because of potentially severe side loading on the crankshaft flange, front bearing, and seal.

Alternative Methods of Compliance

(k) The Manager, New York Aircraft Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

Material Incorporated by Reference

(l) You must use Lycoming MSB No. 475C, dated January 30, 2003, to perform the inspections and repairs required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You can get a copy from Lycoming Engines, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181; fax (570) 327-7101. You can review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Related Information

(m) None.

Issued in Burlington, Massachusetts, on May 12, 2004.

Peter A. White,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. 2003-CE-39-AD; Amendment 39-13645; AD 2004-10-15]

RIN 2120-AA64

Airworthiness Directives; GARMIN International Inc. GTX 330 Mode S Transponders and GTX 330D Diversity Mode S Transponders

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA adopts a new airworthiness directive (AD) for certain GARMIN International Inc. GTX 330/ GTX 330D Mode S transponders that are installed on aircraft. This AD requires you to install GTX 330/330D Software Upgrade Version 3.03, 3.04, or 3.05. This AD is the result of observations that the GTX 330 and GTX 330D may detect, from other aircraft, the S1 (suppression) interrogating pulse below the Minimum Trigger Level (MTL) and, in some circumstances, not reply. The GTX 330/330D should still reply even if it detects S1 interrogating pulses below the MTL. We are issuing this AD to prevent interrogating aircraft from possibly receiving inaccurate replies due to suppression from aircraft equipped with the GTX 330/330D Mode S Transponders when the pulses are below the MTL. The inaccurate replies could result in reduced vertical separation or unsafe TCAS resolution advisories.

DATES: This AD becomes effective on July 9, 2004.

As of July 9, 2004, the Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulation.

ADDRESSES: You may get the service information identified in this AD from GARMIN International Inc., 1200 East 151st Street, Olathe, KS 66062, (913) 397-8200.

You may view the AD docket at FAA, Central Region, Office of the Regional Counsel, Attention: Rules Docket No. 2003-CE-39-AD, 901 Locust, Room 506, Kansas City, Missouri 64106. Office hours are 8 a.m. to 4 p.m., Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Roger A. Souter, FAA, Wichita Aircraft Certification Office (ACO), 1801 Airport Road, Room 100, Wichita, Kansas 67209; telephone: 316-946-4134; facsimile: 316-946-4107; e-mail address: roger.souter@faa.gov.

SUPPLEMENTARY INFORMATION:**Discussion**

What events have caused this AD?
The GTX 330/GTX 330D may detect from other aircraft the S1 (suppression) interrogating pulse below the MTL and, in some circumstances, does not reply. The GTX 330/330D should still reply even if it detects S1 interrogating pulses below the MTL. GARMIN International Inc. suspected the suppression problem after observation between GARMIN company aircraft that were equipped with the GTX 330 and Ryan Traffic and Collision Alert Device (TCAD). Engineering bench tests and test flights confirmed that this suppression problem existed.

What is the potential impact if FAA took no action? Interrogating aircraft could possibly receive inaccurate replies due to suppression from aircraft equipped with the GTX 330/330D Mode S Transponders when the pulses are below the MTL. The inaccurate replies could result in reduced vertical separation or unsafe TCAS resolution advisories.

Has FAA taken any action to this point? We issued a proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that would apply to certain GARMIN International Inc. GTX 330/330D Mode S transponders that are installed on aircraft. This proposal was published in the **Federal Register** as a notice of proposed rulemaking (NPRM) on December 30, 2003 (68 FR 75174). The NPRM proposed to require you to install GTX 330/330D Software Upgrade Version 3.03.

Comments

Was the public invited to comment?
We provided the public the opportunity to participate in developing this AD. The following presents the comments received on the proposal and FAA's response to each comment:

Comment Issue: GTX 330/330D Software Upgrade Version 3.03

What is the commenter's concern?
The NPRM currently requires installation of GTX 330/330D Software Upgrade to Version 3.03 to comply with the proposed AD. Two commenters request a text change of the AD to allow installation of later software upgrade versions to comply with the proposed AD.

What is FAA's response to the concern? Since later software upgrade versions will contain, at a minimum, the elements of Version 3.03 and thus will correct the unsafe condition, we agree with their request and have changed the

text from “Version 3.03” to “Version 3.03, 3.04, or 3.05.”

Conclusion

What is FAA’s final determination on this issue? We have carefully reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed except for the changes discussed above and minor editorial corrections. We have determined that these changes and minor corrections:

- Are consistent with the intent that was proposed in the NPRM for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Changes to 14 CFR Part 39—Effect on the AD

How does the revision to 14 CFR part 39 affect this AD? On July 10, 2002, the FAA published a new version of 14 CFR part 39 (67 FR 47997, July 22, 2002), which governs the FAA’s AD system. This regulation now includes material that relates to altered products, special flight permits, and alternative methods of compliance. This material previously was included in each individual AD. Since this material is included in 14 CFR part 39, we will not include it in future AD actions.

Cost of Compliance

How many airplanes does this AD impact? We estimate that this AD affects 1,300 airplanes in the U.S. registry.

What is the cost impact of this AD on owners/operators of the affected airplanes? Garmin International Inc. will reimburse the 1.0 hours required for this modification per the most current GTX 330 Software Service Bulletin. This reimbursement will follow Garmin’s warranty Policies and

Procedures stating that the most current software, which includes this update and all other updates, should be installed.

Compliance Time of This AD

What will be the compliance time of this AD? The compliance time of this AD is within 30 days after the effective date of the AD.

Why is the compliance time presented in calendar time instead of hours time-in-service (TIS)? The unsafe condition exists or could develop on airplanes equipped with the affected equipment regardless of airplane operation. For example, the unsafe condition has the same chance of occurring on an airplane with 50 hours TIS as it does on one with 5,000 hours TIS. Therefore, we are presenting the compliance time of this AD in calendar time instead of hours TIS.

Regulatory Findings

Will this AD impact various entities? We have determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

Will this AD involve a significant rule or regulatory action? For the reasons discussed above, I certify that this AD:

1. Is not a “significant regulatory action” under Executive Order 12866;
2. Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and
3. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include “AD Docket No. 2003–CE–39–AD” in your request.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

■ Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

PART 39—AIRWORTHINESS DIRECTIVES

■ 1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

■ 2. FAA amends § 39.13 by adding a new AD to read as follows:

2004–10–15 Garmin International Inc.:
Amendment 39–13645; Docket No. 2003–CE–39–AD.

When Does This AD Become Effective?

(a) This AD becomes effective on July 9, 2004.

What Other ADs Are Affected by This Action?

(b) None.

What Airplanes Are Affected by This AD?

(c) This AD affects GARMIN International Inc. GTX 330/330D Mode S transponders that are installed on, but not limited to, the following airplanes, certificated in any category:

Manufacturer	Model
(1) Aermacchi S.p.A	S.205–18/F, S.205–18/R, S.205–20/R, S.205–22/R, S.208, S.208A, F.260, F.260B, F.260C, F.260D, F.260E, F.260F, S.211A.
(2) Aeronautica Macchi S.p.A	AL 60, AL 60–B, AL 60–F5, AL 60–C5, AM–3.
(3) Aerostar Aircraft Corporation	PA–60–600 (Aerostar 600), PA–60–601 (Aerostar 601), PA–60–601P (Aerostar 601P), PA–60–602P (Aerostar 602P), PA–60–700P (Aerostar 700P), 360, 400.
(4) Alexandria Aircraft, LLC	14–19, 14–19–2, 14–19–3, 14–19–3A, 17–30, 17–31, 17–31TC, 17–30A, 17–31A, 17–31ATC.
(5) Alliance Aircraft Group LLC	15A, 20, H–250, H–295, (USAFU–10D), HT–295, H391 (USAFYL–24), H391B, H–395 (USAFU–28A or U–10B), H–395A, H–700, H–800, HST–550, HST–550A (USAF AU–24A), 500.
(6) American Champion Aircraft Corp	402, 7GCA, 7GCB, 7KC, 7GCBA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC.
(7) Sky International Inc	A–1, A–1A, A–1B, S–1S, S–1T, S–2, S–2A, S–2S, S–2C.
(8) B–N Group Ltd	BN–2, BN–2A, BN–2A–2, BN–2A–3, BN–2A–6, BN–2A–8, BN–2A–20, BN–2A–21, BN–2A–26, BN–2A–27, BN–2B–20, BN–2B–21, BN–2A–26, BN–2A–27, BN–2B–20, BN–2B–21, BN–2B–26, BN–2B–27, BN–2T, BN–2T–4R, BN–2A MK.III, BN2A MK.III–2, BN2A MK.111–3.
(9) Bellanca	14–13, 14–13–2, 14–13–3, 14–13–3W.
(10) Bombardier Inc	(Otter) DHC–3, DHC–6–1, DHC–6–100, DHC–6–200, DHC–6–300.

Manufacturer	Model
(11) Cessna Aircraft Company	170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H, (USAF T041A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S, 172RG, P172D, R172E (USAF T-41 B) (USAF T-41 C AND D), R172F (USAF T-41 D), R175G, R172H (USAF T-41 D), R172J, R172K, 175, 175A, 175B, 175C, 177, 177A, 177B, 177RG, 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T, 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F, 190, (LC-126A, B, C) 195, 195A, 195B, 210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R, 210-5 (205), 210-5A (205A), 206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H, 207, 207A, T207, T207A, 208, 208A, 208B, 310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R, 320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1, 335, 340, 340A, 336, 337, 337A (USAF 02B), 337B, T337B, 337C, 337E, T337E, T337C, 337D, T337D, M337B (USAF 02A), 337F, T337F, T337G, 337G, 337H, P337H, T337H, T337H-SP, 401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425, 404, 406, 441.
(12) Cirrus Design Corporation	SR20, SR22.
(13) Commander Aircraft Company	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC.
(14) de Havilland Inc	DHC-2 Mk. I, DHC-2 Mk. II, DHC-2 Mk. III.
(15) Dynac Aerospace Corporation	(Voltaire) 10, (Voltaire) 10A, (Aero Commander) 100, (Aero Commander) 100A, (Aero Commander) 100-180.
(16) Diamond Aircraft Industries	DA-20-A1, DA20-C1, DA 40.
(17) Empresa Brasileira de Aeronautica S.A. EMBRAER.	EMB-110P1, EMB-110PE.
(18) Extra Flugzeugbau GmbH	EA300, EA300L, EA300S, EA300/200, EA-400.
(19) Fairchild Aircraft Corporation	SA26-T, SA26-AT, SA226-T, SA226-AT, SA226-T(B), SA227-AT, SA227-TT, SA226-TC, SA227-AC (C-26A), SA227-CC, SA227-DC (C-26B).
(20) Global Amphibians, LLC	Colonial C-1, Colonial C-2, Lake LA-4, Lake LA-4A, Lake LA-4P, Lake LA-4-200, Lake Model 250.
(21) Grob-Werke	G115, G115A, G115B, G115C, G115C2, G115D, G115D2, G115EG, G120A.
(22) Lancair Company	LC40-550FG.
(23) LanShe Aerospace, LLC	MAC-125C, MAC-145, MAC-145A, MAC-145B.
(24) Learjet Inc	23.
(25) Lockheed Aircraft Corporation	18.
(26) Luscombe Aircraft Corporation	11A, 11E.
(27) Maule Aerospace Technology, Inc	Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220S, M-4-220T, M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-180, MX-7-180A, MX-7-180B, MX-7-180C, MX-7-180D, MX-7-180E, MX-7-180F, MX-7-180G, MX-7-180H, MX-7-180I, MX-7-180J, MX-7-180K, MX-7-180L, MX-7-180M, MX-7-180N, MX-7-180O, MX-7-180P, MX-7-180Q, MX-7-180R, MX-7-180S, MX-7-180T, MX-7-180U, MX-7-180V, MX-7-180W, MX-7-180X, MX-7-180Y, MX-7-180Z, MX-7-180AA, MX-7-180AB, MX-7-180AC, MX-7-180AD, MX-7-180AE, MX-7-180AF, MX-7-180AG, MX-7-180AH, MX-7-180AI, MX-7-180AJ, MX-7-180AK, MX-7-180AL, MX-7-180AM, MX-7-180AN, MX-7-180AO, MX-7-180AP, MX-7-180AQ, MX-7-180AR, MX-7-180AS, MX-7-180AT, MX-7-180AU, MX-7-180AV, MX-7-180AW, MX-7-180AX, MX-7-180AY, MX-7-180AZ, MX-7-180BA, MX-7-180BB, MX-7-180BC, MX-7-180BD, MX-7-180BE, MX-7-180BF, MX-7-180BG, MX-7-180BH, MX-7-180BI, MX-7-180BJ, MX-7-180BK, MX-7-180BL, MX-7-180BM, MX-7-180BN, MX-7-180BO, MX-7-180BP, MX-7-180BQ, MX-7-180BR, MX-7-180BS, MX-7-180BT, MX-7-180BU, MX-7-180BV, MX-7-180BW, MX-7-180BX, MX-7-180BY, MX-7-180BZ, MX-7-180CA, MX-7-180CB, MX-7-180CC, MX-7-180CD, MX-7-180CE, MX-7-180CF, MX-7-180CG, MX-7-180CH, MX-7-180CI, MX-7-180CJ, MX-7-180CK, MX-7-180CL, MX-7-180CM, MX-7-180CN, MX-7-180CO, MX-7-180CP, MX-7-180CQ, MX-7-180CR, MX-7-180CS, MX-7-180CT, MX-7-180CU, MX-7-180CV, MX-7-180CW, MX-7-180CX, MX-7-180CY, MX-7-180CZ, MX-7-180DA, MX-7-180DB, MX-7-180DC, MX-7-180DD, MX-7-180DE, MX-7-180DF, MX-7-180DG, MX-7-180DH, MX-7-180DI, MX-7-180DJ, MX-7-180DK, MX-7-180DL, MX-7-180DM, MX-7-180DN, MX-7-180DO, MX-7-180DP, MX-7-180DQ, MX-7-180DR, MX-7-180DS, MX-7-180DT, MX-7-180DU, MX-7-180DV, MX-7-180DW, MX-7-180DX, MX-7-180DY, MX-7-180DZ, MX-7-180EA, MX-7-180EB, MX-7-180EC, MX-7-180ED, MX-7-180EE, MX-7-180EF, MX-7-180EG, MX-7-180EH, MX-7-180EI, MX-7-180EJ, MX-7-180EK, MX-7-180EL, MX-7-180EM, MX-7-180EN, MX-7-180EO, MX-7-180EP, MX-7-180EQ, MX-7-180ER, MX-7-180ES, MX-7-180ET, MX-7-180EU, MX-7-180EV, MX-7-180EW, MX-7-180EX, MX-7-180EY, MX-7-180EZ, MX-7-180FA, MX-7-180FB, MX-7-180FC, MX-7-180FD, MX-7-180FE, MX-7-180FF, MX-7-180FG, MX-7-180FH, MX-7-180FI, MX-7-180FJ, MX-7-180FK, MX-7-180FL, MX-7-180FM, MX-7-180FN, MX-7-180FO, MX-7-180FP, MX-7-180FQ, MX-7-180FR, MX-7-180FS, MX-7-180FT, MX-7-180FU, MX-7-180FV, MX-7-180FW, MX-7-180FX, MX-7-180FY, MX-7-180FZ, MX-7-180GA, MX-7-180GB, MX-7-180GC, MX-7-180GD, MX-7-180GE, MX-7-180GF, MX-7-180GG, MX-7-180GH, MX-7-180GI, MX-7-180GJ, MX-7-180GK, MX-7-180GL, MX-7-180GM, MX-7-180GN, MX-7-180GO, MX-7-180GP, MX-7-180GQ, MX-7-180GR, MX-7-180GS, MX-7-180GT, MX-7-180GU, MX-7-180GV, MX-7-180GW, MX-7-180GX, MX-7-180GY, MX-7-180GZ, MX-7-180HA, MX-7-180HB, MX-7-180HC, MX-7-180HD, MX-7-180HE, MX-7-180HF, MX-7-180HG, MX-7-180HH, MX-7-180HI, MX-7-180HJ, MX-7-180HK, MX-7-180HL, MX-7-180HM, MX-7-180HN, MX-7-180HO, MX-7-180HP, MX-7-180HQ, MX-7-180HR, MX-7-180HS, MX-7-180HT, MX-7-180HU, MX-7-180HV, MX-7-180HW, MX-7-180HX, MX-7-180HY, MX-7-180HZ, MX-7-180IA, MX-7-180IB, MX-7-180IC, MX-7-180ID, MX-7-180IE, MX-7-180IF, MX-7-180IG, MX-7-180IH, MX-7-180II, MX-7-180IJ, MX-7-180IK, MX-7-180IL, MX-7-180IM, MX-7-180IN, MX-7-180IO, MX-7-180IP, MX-7-180IQ, MX-7-180IR, MX-7-180IS, MX-7-180IT, MX-7-180IU, MX-7-180IV, MX-7-180IW, MX-7-180IX, MX-7-180IY, MX-7-180IZ, MX-7-180JA, MX-7-180JB, MX-7-180JC, MX-7-180JD, MX-7-180JE, MX-7-180JF, MX-7-180JG, MX-7-180JH, MX-7-180JI, MX-7-180JJ, MX-7-180JK, MX-7-180JL, MX-7-180JM, MX-7-180JN, MX-7-180JO, MX-7-180JP, MX-7-180JQ, MX-7-180JR, MX-7-180JS, MX-7-180JT, MX-7-180JU, MX-7-180JV, MX-7-180JW, MX-7-180JX, MX-7-180JY, MX-7-180JZ, MX-7-180KA, MX-7-180KB, MX-7-180KC, MX-7-180KD, MX-7-180KE, MX-7-180KF, MX-7-180KG, MX-7-180KH, MX-7-180KI, MX-7-180KJ, MX-7-180KK, MX-7-180KL, MX-7-180KM, MX-7-180KN, MX-7-180KO, MX-7-180KP, MX-7-180KQ, MX-7-180KR, MX-7-180KS, MX-7-180KT, MX-7-180KU, MX-7-180KV, MX-7-180KW, MX-7-180KX, MX-7-180KY, MX-7-180KZ, MX-7-180LA, MX-7-180LB, MX-7-180LC, MX-7-180LD, MX-7-180LE, MX-7-180LF, MX-7-180LG, MX-7-180LH, MX-7-180LI, MX-7-180LJ, MX-7-180LK, MX-7-180LL, MX-7-180LM, MX-7-180LN, MX-7-180LO, MX-7-180LP, MX-7-180LQ, MX-7-180LR, MX-7-180LS, MX-7-180LT, MX-7-180LU, MX-7-180LV, MX-7-180LW, MX-7-180LX, MX-7-180LY, MX-7-180LZ, MX-7-180MA, MX-7-180MB, MX-7-180MC, MX-7-180MD, MX-7-180ME, MX-7-180MF, MX-7-180MG, MX-7-180MH, MX-7-180MI, MX-7-180MJ, MX-7-180MK, MX-7-180ML, MX-7-180MM, MX-7-180MN, MX-7-180MO, MX-7-180MP, MX-7-180MQ, MX-7-180MR, MX-7-180MS, MX-7-180MT, MX-7-180MU, MX-7-180MV, MX-7-180MW, MX-7-180MX, MX-7-180MY, MX-7-180MZ, MX-7-180NA, MX-7-180NB, MX-7-180NC, MX-7-180ND, MX-7-180NE, MX-7-180NF, MX-7-180NG, MX-7-180NH, MX-7-180NI, MX-7-180NJ, MX-7-180NK, MX-7-180NL, MX-7-180NM, MX-7-180NO, MX-7-180NP, MX-7-180NQ, MX-7-180NR, MX-7-180NS, MX-7-180NT, MX-7-180NU, MX-7-180NV, MX-7-180NW, MX-7-180NX, MX-7-180NY, MX-7-180NZ, MX-7-180OA, MX-7-180OB, MX-7-180OC, MX-7-180OD, MX-7-180OE, MX-7-180OF, MX-7-180OG, MX-7-180OH, MX-7-180OI, MX-7-180OJ, MX-7-180OK, MX-7-180OL, MX-7-180OM, MX-7-180ON, MX-7-180OO, MX-7-180OP, MX-7-180OQ, MX-7-180OR, MX-7-180OS, MX-7-180OT, MX-7-180OU, MX-7-180OV, MX-7-180OW, MX-7-180OX, MX-7-180OY, MX-7-180OZ, MX-7-180PA, MX-7-180PB, MX-7-180PC, MX-7-180PD, MX-7-180PE, MX-7-180PF, MX-7-180PG, MX-7-180PH, MX-7-180PI, MX-7-180PJ, MX-7-180PK, MX-7-180PL, MX-7-180PM, MX-7-180PN, MX-7-180PO, MX-7-180PP, MX-7-180PQ, MX-7-180PR, MX-7-180PS, MX-7-180PT, MX-7-180PU, MX-7-180PV, MX-7-180PW, MX-7-180PX, MX-7-180PY, MX-7-180PZ, MX-7-180QA, MX-7-180QB, MX-7-180QC, MX-7-180QD, MX-7-180QE, MX-7-180QF, MX-7-180QG, MX-7-180QH, MX-7-180QI, MX-7-180QJ, MX-7-180QK, MX-7-180QL, MX-7-180QM, MX-7-180QN, MX-7-180QO, MX-7-180QP, MX-7-180QQ, MX-7-180QR, MX-7-180QS, MX-7-180QT, MX-7-180QU, MX-7-180QV, MX-7-180QW, MX-7-180QX, MX-7-180QY, MX-7-180QZ, MX-7-180RA, MX-7-180RB, MX-7-180RC, MX-7-180RD, MX-7-180RE, MX-7-180RF, MX-7-180RG, MX-7-180RH, MX-7-180RI, MX-7-180RJ, MX-7-180RK, MX-7-180RL, MX-7-180RM, MX-7-180RN, MX-7-180RO, MX-7-180RP, MX-7-180RQ, MX-7-180RR, MX-7-180RS, MX-7-180RT, MX-7-180RU, MX-7-180RV, MX-7-180RW, MX-7-180RX, MX-7-180RY, MX-7-180RZ, MX-7-180SA, MX-7-180SB, MX-7-180SC, MX-7-180SD, MX-7-180SE, MX-7-180SF, MX-7-180SG, MX-7-180SH, MX-7-180SI, MX-7-180SJ, MX-7-180SK, MX-7-180SL, MX-7-180SM, MX-7-180SN, MX-7-180SO, MX-7-180SP, MX-7-180SQ, MX-7-180SR, MX-7-180SS, MX-7-180ST, MX-7-180SU, MX-7-180SV, MX-7-180SW, MX-7-180SX, MX-7-180SY, MX-7-180SZ, MX-7-180TA, MX-7-180TB, MX-7-180TC, MX-7-180TD, MX-7-180TE, MX-7-180TF, MX-7-180TG, MX-7-180TH, MX-7-180TI, MX-7-180TJ, MX-7-180TK, MX-7-180TL, MX-7-180TM, MX-7-180TN, MX-7-180TO, MX-7-180TP, MX-7-180TQ, MX-7-180TR, MX-7-180TS, MX-7-180TT, MX-7-180TU, MX-7-180TV, MX-7-180TW, MX-7-180TX, MX-7-180TY, MX-7-180TZ, MX-7-180UA, MX-7-180UB, MX-7-180UC, MX-7-180UD, MX-7-180UE, MX-7-180UF, MX-7-180UG, MX-7-180UH, MX-7-180UI, MX-7-180UJ, MX-7-180UK, MX-7-180UL, MX-7-180UM, MX-7-180UN, MX-7-180UO, MX-7-180UP, MX-7-180UQ, MX-7-180UR, MX-7-180US, MX-7-180UT, MX-7-180UU, MX-7-180UV, MX-7-180UW, MX-7-180UX, MX-7-180UY, MX-7-180UZ, MX-7-180VA, MX-7-180VB, MX-7-180VC, MX-7-180VD, MX-7-180VE, MX-7-180VF, MX-7-180VG, MX-7-180VH, MX-7-180VI, MX-7-180VJ, MX-7-180VK, MX-7-180VL, MX-7-180VM, MX-7-180VN, MX-7-180VO, MX-7-180VP, MX-7-180VQ, MX-7-180VR, MX-7-180VS, MX-7-180VT, MX-7-180VU, MX-7-180VV, MX-7-180VW, MX-7-180VX, MX-7-180VY, MX-7-180VZ, MX-7-180WA, MX-7-180WB, MX-7-180WC, MX-7-180WD, MX-7-180WE, MX-7-180WF, MX-7-180WG, MX-7-180WH, MX-7-180WI, MX-7-180WJ, MX-7-180WK, MX-7-180WL, MX-7-180WM, MX-7-180WN, MX-7-180WO, MX-7-180WP, MX-7-180WQ, MX-7-180WR, MX-7-180WS, MX-7-180WT, MX-7-180WU, MX-7-180WV, MX-7-180WW, MX-7-180WX, MX-7-180WY, MX-7-180WZ, MX-7-180XA, MX-7-180XB, MX-7-180XC, MX-7-180XD, MX-7-180XE, MX-7-180XF, MX-7-180XG, MX-7-180XH, MX-7-180XI, MX-7-180XJ, MX-7-180XK, MX-7-180XL, MX-7-180XM, MX-7-180XN, MX-7-180XO, MX-7-180XP, MX-7-180XQ, MX-7-180XR, MX-7-180XS, MX-7-180XT, MX-7-180XU, MX-7-180XV, MX-7-180XW, MX-7-180XX, MX-7-180XY, MX-7-180XZ, MX-7-180YA, MX-7-180YB, MX-7-180YC, MX-7-180YD, MX-7-180YE, MX-7-180YF, MX-7-180YG, MX-7-180YH, MX-7-180YI, MX-7-180YJ, MX-7-180YK, MX-7-180YL, MX-7-180YM, MX-7-180YN, MX-7-180YO, MX-7-180YP, MX-7-180YQ, MX-7-180YR, MX-7-180YS, MX-7-180YT, MX-7-180YU, MX-7-180YV, MX-7-180YW, MX-7-180YX, MX-7-180YY, MX-7-180YZ, MX-7-180ZA, MX-7-180ZB, MX-7-180ZC, MX-7-180ZD, MX-7-180ZE, MX-7-180ZF, MX-7-180ZG, MX-7-180ZH, MX-7-180ZI, MX-7-180ZJ, MX-7-180ZK, MX-7-180ZL, MX-7-180ZM, MX-7-180ZN, MX-7-180ZO, MX-7-180ZP, MX-7-180ZQ, MX-7-180ZR, MX-7-180ZS, MX-7-180ZT, MX-7-180ZU, MX-7-180ZV, MX-7-180ZW, MX-7-180ZX, MX-7-180ZY, MX-7-180ZZ.
(28) Mitsubishi Heavy Industries, Ltd	MU-2B-25, MU-2B-35, MU-2B-26, MU-2B-36, MU-2B-26A, MU-2B-36A, MU-2B-40, MU-2B-60, MU-2B, MU-2B-20, MU-2B-20, MU-2B-15.
(29) Mooney Airplane Company, Inc	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S, M22.
(30) Moravan a.s	Z-242L, Z-143L.
(31) Navion Aircraft Company, Ltd	NAVION, Navion (L-17A), Navion (L-17B), Navion (L-17C), Navion B, Navion D, Navion E, Navion F, Navion G, Navion H.
(32) New Piper Aircraft, Inc	PA-12, PA-12S, PA-18, PA-18S, PA-18 "105" (Special), PA-18S "105" (Special), PA-18A, PA-18 "125" (Army L-21A), PA-18S "125," PA-18AS "125," PA-18 "135" (Army L-21B), PA-18A "135," PA-18S "135," PA-18 "150," PA-18A "150," PA-18S "150," PA-18AS "150," PA-19 (Army L-18B), PA-19S, PA-20, PA-20S, PA-20 "115," PA-20S "115," PA-20 "135," PA-20S "135," PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160, PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250, PA-24, PA-24-250, PA-24-260, PA-24-400, PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-235, PA-28S-160, PA-28R-180, PA-28S-180, PA-28-181, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28-201T, PA-28-236, PA-30, PA-39, PA-40, PA-31P, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-31P-350, PA-32-260, PA-32-300, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32-301, PA-32-301T, PA-34-200, PA-34-200T, PA-34-220T, PA-42, PA-42-720, PA-42-1000, PA-42-720R, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP.
(33) Ostmecklenburgische Flugzeugbau GmbH	OMF-100-160.
(34) Piaggio Aero Industries S.p.A	P-180.
(35) Pilatus Aircraft Ltd	PILATUS PC-12, PILATUS PC-12/45, PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PA-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, PC-6/C1-H2, PC-7.
(36) Prop-Jets, Inc	200, 200A, 200B, 200C, 200D, 400.
(37) Panstwowe Zaklady Lotnicze (PZL)	PZL-104 WILGA 80, PZL-104M WILGA 2000, PZL-WARSZAWA, PZL-KOLIBER 150A, PZL-KOLIBER 160A.

Manufacturer	Model
(38) PZL WSK/Mielec Obrsk	PZL M20 03, PZL M26 01.
(39) Raytheon	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC, 35, A35, B35, C35, D35, E35, F35, G35, 35R, F90, 76, 200, 200C, 200CT, 200T, A200, B200, B200C, B200CT, B200T, 300, 300LW, B300, B300C, 1900, 1900C, 1900D, A100-1 (U-21J), A200 (C-12A), A200 (C-12C), A200C (UC-12B), A200CT (C-12D), A200CT (FWC-12D), A200CT (RC-12D), A200CT (C-12F), A200CT (RC-12G), A200CT (RC-12H), A200CT (RC-12K), A200CT (RC-12P), A200CT (RC-12Q), B200C (C-12F), B200C (UC-12F), B200C (UC-12M), B200C (C-12R), 1900C (C-12J), 65, A65, A65-8200, 65-80, 65-A80, 65-A80-8800, 65-B80, 65-88, 65-A90, 70, B90, C90, C90A, E90, H90, 65-A90-1, 65-A90-2, 65-A90-3, 65-A90-4, 95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, 99, 99A, 99A (FACH), A99, A99A, B99, C99, 100, A100 (U-21F), A100A, A100C, B100, 2000, 3000, 390, 19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R, 60, A60, B60, 18D, A18A, A18D, S18D, SA18A, SA18D, 3N, 3NM, 3TM, JRB-6, D18C, D18S, E18S, RC-45J (SNB-5P), E18S-9700, G18S, H18, C-45G, TC-45G, C-45H, TC-45H, UC-45J (SNB-5), 50 (L-23A), B50 (L-23B), C50, D50 (L-23E), D50A, D50B, D50C, D50E-5990, E50 (L-23D, RL-23D), F50, G50, H50, J50, 45 (YT-34), A45 (T-34A or B-45), D45 (T-34B).
(40) Rockwell International Corporation	BC-1A, AT-6 (SNJ-2), AT-6A (SNJ-3), AT-6B, AT-6C (SNJ-4), AT-6D (SNJ-5), AT-6F (SNF-6), SNJ-7, T-6G, NOMAD NA-260.
(41) Short Brothers & Harland Ltd	SC-7 Series 2, SC-7 Series 3.
(42) Slingsby Aviation Ltd	T67M260, T67M260-T3A.
(43) SOCATA—Group Aerospatiale	TB9, TB10, TB20, TB21, TB200, TBM 700, M.S. 760, M.S. 760 A, M.S. 760 B, Rallye 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C, MS 880B, MS 885, MS 894A, MS 893A, MS 892A-150, MS 892E-150, MS 893E, MS 894E, GA-7.
(44) Tiger Aircraft LLC	AA-1, AA-1A, AA-1B, AA-1C, AA-5, AA-5A, AA-5B, AG-5B.
(45) Twin Commander Aircraft Corporation	500, 500-A, 500-B, 500-U, 500-S, 520, 560, 560-A, 560-E, 560F, 680, 680E, 680F, 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B, 720, 700.
(46) Univair Aircraft Corporation	108, 108-1, 108-2, 108-3, 108-5.
(47) Vulcanair S.p.A	P68, P68B, P68C, P68C-TC, P68 "Observer," P68 "Observer 2," P68TC "Observer," AP68TP300 "Spartacus," AP68TP 600 "Viator".
(48) Zenair Ltd	CH2000.

What Is the Unsafe Condition Presented in This AD?

(d) The actions specified in this AD are intended to prevent interrogating aircraft from possibly receiving inaccurate replies,

due to suppression, from aircraft equipped with the GTX 330/330D Mode S Transponders when the pulses are below the Minimum Trigger Level (MTL). The inaccurate replies could result in vertical

separation or unsafe TCAS resolution advisories.

What Must I Do To Address This Problem?

(e) To address this problem, you must do the following:

Actions	Compliance	Procedures
Install GTX 330/330D Software Upgrade to at least Version 3.03, 3.04, or 3.05.	Install the software upgrade within 30 days after July 9, 2004 (the effective date of this AD), unless already done.	Follow GARMIN Mandatory Software Service Bulletin No.: 0304, Rev B, dated June 12, 2003 (SW Version 3.03); Garmin Software Service Bulletin No. 0310, Rev A, dated November 10, 2003 (SW Version 3.04); or Garmin Software Service Bulletin No. 0401, Rev A, dated February 18, 2004 (SW Version 3.05).

May I Request an Alternative Method of Compliance?

(f) You may request a different method of compliance or a different compliance time for this AD by following the procedures in 14 CFR 39.19. Unless FAA authorizes otherwise, send your request to your principal inspector. The principal inspector may add comments and will send your request to the Manager, Wichita Aircraft Certification Office (ACO), FAA. For information on an already approved alternative methods of compliance, contact Roger A. Souter, FAA, Wichita ACO, 1801 Airport Road, Room 100, Wichita, Kansas 67209; telephone: 316-946-4134; facsimile: 316-946-4107; e-mail address: roger.souter@faa.gov.

Does This AD Incorporate Any Material by Reference?

(g) You must do the actions required by this AD following the instructions in GARMIN Mandatory Software Service Bulletin No.: 0304, Rev B, dated June 12, 2003 (SW Version 3.03); Garmin Software Service Bulletin No. 0310, Rev A, dated November 10, 2003 (SW Version 3.04); or Garmin Software Service Bulletin No. 0401, Rev A, dated February 18, 2004 (SW Version 3.05). The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may get a copy from GARMIN International Inc. 1200 East 151st Street, Olathe, KS 66062. You may review copies at FAA, Central Region, Office

of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri 64106; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

Issued in Kansas City, Missouri, on May 13, 2004.

David R. Showers,
Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

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