



SERVICE ALERT

NO.: 1027 Rev B

TO: Owners/Operators of G500 and G600 Systems

DATE: August 12, 2010

SUBJECT: Aircraft with Maximum Airspeed Limitations that Vary with Altitude

REV B: Additional Aircraft Models included in the Affected Aircraft List

AFFECTED PRODUCTS

G500 and G600 Systems with Software Version 3.02 or earlier, that have a maximum airspeed limitation that varies with altitude. A list of known affected aircraft on the G500/600 AML is listed in Table 1 of this alert. Rev B of this alert lists additional aircraft (added models are highlighted in grey).

DESCRIPTION

Certain airplane models (see page two of this alert) on the G500/600 AML, require a maximum airspeed indication (“barber pole”) that will change based on altitude. GDU 620 Software Version 3.02 in G500/G600 Systems does not currently provide a means to display a maximum airspeed indication that varies with altitude. This could result in the display of maximum airspeed indication that is higher than the actual operating limitation.



Note: Not all aircraft listed in Table 1 utilize a “barber pole” for over-speed indications.

RESOLUTION

Garmin will support the display of maximum airspeed indications that vary with altitude in GDU 620 Software Version 5.00 and later versions. When Software Version 5.00 is STC approved, an upgrade will be announced.

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PILOT ACTION

For affected aircraft: The current G500 and G600 STC Installation Manuals, (*Garmin p/n 190-01102-06 Rev 3 and 190-00601-06 Rev E, respectively*) require that aircraft models affected by this issue retain the original airspeed indicator and/or airspeed limitation placard. (Some of the affected aircraft models originally used a moveable maximum airspeed indication on the airspeed indicator and other models used a placard, to depict the maximum allowable airspeed.) The pilot is to rely on the secondary airspeed indicator and/or placard for the maximum airspeed limitations.

The current AFMS contains a description of this limitation. Review the AFMS installed in the aircraft. If AFMS Rev. C (G600) or later or Rev. 2 (G500) or later is installed, verify that section 2.8 is filled out for the installation. If AFMS Rev. B or earlier (G600) or Rev. 1 (G500) is installed or section 2.8 has not been filled out, contact your Garmin dealer.

Table 1. Aircraft with Variable Airspeed Limitation

Aircraft Make [common name or previous make]	Aircraft Model Designation
Aerostar (Aerostar Aircraft Corporation) [Piper Aerostar]	PA-60-601 (Aerostar 601), PA-60-601P (Aerostar 601P), PA-60-602P (Aerostar 602P), PA-60-700P (Aerostar 700P)
Hawker Beechcraft (Hawker Beechcraft Corporation) [Raytheon] [Beech]	56TC, A56TC, 58P, 58PA, 58TC, 58TCA F90, 99, 99A, 99A(FACH), A99, A99A, B99, C90A, C90GT, C90GTi, C99, 100, A100 (U-21F), A100A, A100C, B100, A100-1 (U-21J), 200, 200C, A200, A200 (C-12A) A200 (C-12C), A200C (UC-12B), B200, B200C, B200C (C-12F) or (UC-12F) or (UC-12M) or (C-12R)
Cessna (Cessna Aircraft Company)	425 406 441 LC40-550FG, LC41-550FG, LC42-550FG
CPAC, Inc. (CPAC, Inc.) [Commander Aircraft Co.]	112, 114, 114A, 114B, 114TC
deHavilland (Viking Air Limited)	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300
Fairchild (M7 Aerospace LP)	SA226-T, SA226-AT, SA226-T(B)
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-10, MU-2B-20, MU-2B-15, MU-2B-30, MU-2B-35, MU-2B-25, MU-2B-36, MU-2B-26
Partenavia	AP68TP 300 "Spartacus", AP68TP 600 "Viator"
Piaggio (Piaggio Aero Industries S.p.A)	P-180, P.166 DL3
Pilatus (Pilatus Aircraft Ltd)	PC-12, PC-12/45, PC-12/47, PC-7
Piper Aircraft, Inc. (Piper Aircraft, Inc.) [New Piper]	PA-31P, PA-31P-350, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-40, PA-42, PA-42-720, PA-42-1000
Reims Aviation S.A.	F406
Sea Bee/Trident	TR-1
SOCATA (SOCATA - Groupe Aerospatiale)	M.S.760, M.S.760A, M.S.760B
Twin Commander (Twin Commander Aircraft Corporation)	685, 690, 700, 690A, 690B, 690C, 690D, 695, 695A, 695B