

Service Bulletin 73

Subject: **Garmin Autopilot cable ball position and cable routing.**

Applicability: All Sportsman and GlaStar Aircraft equipped with Garmin GSA 28 Autopilot Servos

Compliance Time: Before next flight

Discussion and Background Information:

There has been a report of an autopilot cable unwinding from the capstan on a Garmin GSA 28 Autopilot Aileron Roll Servo. The swaged ball may come loose from the capstan and bind in the cable guide causing the flight controls to bind.

Required Action:

Before your next flight inspect the servo capstan cable routing and cable ball location. If you have the inspection ports in the seat pans you will be able to see the routing of the autopilot cables without removing the seat pans. If you do not have the inspection ports you must remove the seat pans to determine the routing of the cables and the position of the cable ball.

From the Garmin GSA 28 Autopilot installation instructions:


CABLE EXITING IN OPPOSITE DIRECTION: ONE FULL WRAP OF CABLE IS REQUIRED. BALL SHOULD BE IN CENTER OF CABLE WRAP WHEN CABLE IS AT CENTER OF TRAVEL. THE CAPSTAN MAY ROTATE A MAXIMUM OF 150 DEGREES IN EITHER DIRECTION, ALLOWING A MAXIMUM OF 2.6" OF TRAVEL IN EACH DIRECTION.

With the control stick in the neutral position for roll the ball socket should be at the top of the roll servo capstan with the cables exiting on the bottom with 1 complete revolution of the cable around the capstan.

With the control stick in the neutral position for pitch the ball socket should be at the bottom of the pitch servo capstan with the cables exiting on the top with 1 complete revolution of the cable around the capstan.

If your autopilot servo cables are not routed as described they may have been trimmed in such a way that they are not reusable. If you find that the cable is short a new servo cable can be ordered directly from Trutrak Flight Systems at 479-751-0250

See attached figure 15-8.4 from Revision Z PN 190-01115-01 G3X/G3X Touch Installation Manual – GSA 28 Installation Page 15-18. Link to Garmin installation manual is http://static.garmin.com/pumac/190-01115-01_Z.pdf

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