

STC GROUP LLC
480 RUDDIMAN DRIVE
MUSKEGON, MICHIGAN 49445

	SERVICE BULLETIN Mandatory for IFR Operations Optional for VFR Operations
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SERVICE BULLETIN NO: SB-001 REV A

TRIO PRO PILOT AUTOPILOT SYSTEM SOFTWARE VERSION 220322E

To: All Trio Pro Pilot™ Autopilot users with Software Version 220322E

Date: December 11th, 2024

Subject: Trio Pro Pilot™ Autopilot System Software Version 220322E

Certification Authorization: STC SA04230CH

STC authorization does not provide installation airworthiness approval. Separate installation airworthiness approval is required for type certificated aircraft. Notification of revision to any STC Group STC will be provided under a separate service bulletin.



1) COMPLIANCE

Mandatory for IFR Operations

Optional for VFR Operations

2) PURPOSE

This Service Bulletin is intended to provide information on an available corrective action for software 220322E. Trio Avionics Inc. has received several complaints about lateral and vertical deviations in flight to include LPV approaches. This has been described by users as “hunting for a heading” or a “lateral guidance twitch” along with a porpoise on glideslope when using the Aspen E5 or Aspen Pro Max data for LPV approach. The company’s analysis has shown it is for the following reasons: a race condition and data bus delay. This is affecting all installations with software version 220322E. Lateral deviations of 3 – 10 degrees have been reported and confirmed with company testing. Vertical deviations of 50-100 ft have been reported and confirmed with company testing.

3) SOFTWARE IDENTIFICATION

The installed software version is displayed upon power-up and on the second to last page of the MAINTENANCE SETTINGS.

4) EQUIPMENT AFFECTED

Trio Pro Pilot Autopilot Controllers with Software Version 220322E

Aspen EFD1000 Pro Max & Aspen EFD1000 E5 Lateral and Vertical deviations.

Garmin G5 Lateral deviations.



5) WARRANTY INFORMATION

Trio Pro Pilot™ Autopilot System Software Version 220322F, or later version, corrects the “race condition” and data bus delay. Modification of the installed software version will be completed for free under warranty for users who have purchased an EFIS unlock using software version 220322E prior to the certification of System Software Version 220322F.

The Trio Autopilot must be removed and shipped to Trio Avionics for System Software Version 220322F, or later version. Turnaround time is 2-3 business days.

Trio Avionics
1905 N Marshall Ave #6
El Cajon, CA 92020

Shipping charges will apply.
Contact Trio Avionics or The STC Group LLC for RMA details.
Estimated Labor: 0.5 hours for removal – 1.0 hour for reinstallation.

6) REQUIRED ACTION

Remove and replace the Trio Pro Pilot Autopilot controller with a controller that **does not** have system software 220322E in accordance with The STC Group LLC Installation Instructions Document # 1006100, current revision.

Note:

The latest revision FAA Approved Trio Pro Pilot Autopilot Aircraft Flight Manual Supplement Document # L-1006-01 AFMS is to be provided to the owner/operator, if not already provided.

<https://www.thestcgroupllc.com/pages/documentation>