

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Description of alteration: This alteration removes a Bendix/King model KT 78 Transponder and installs a Garmin model GTX 327 Transponder.

Description of work: The Bendix/King model KT 78 Transponder and its wiring were removed and discarded. The pre-existing mode C blind encoder was retained and rewired to mate with the GTX 327. Installation of the new transponder was accomplished according to the installation instructions in the Garmin "GTX 327 Installation Manual" (manual number 190-00187-02). The GTX 327 is in location 8c on the panel (see attached dwg N5413K Panel).

The existing transponder antenna was reused for this installation.

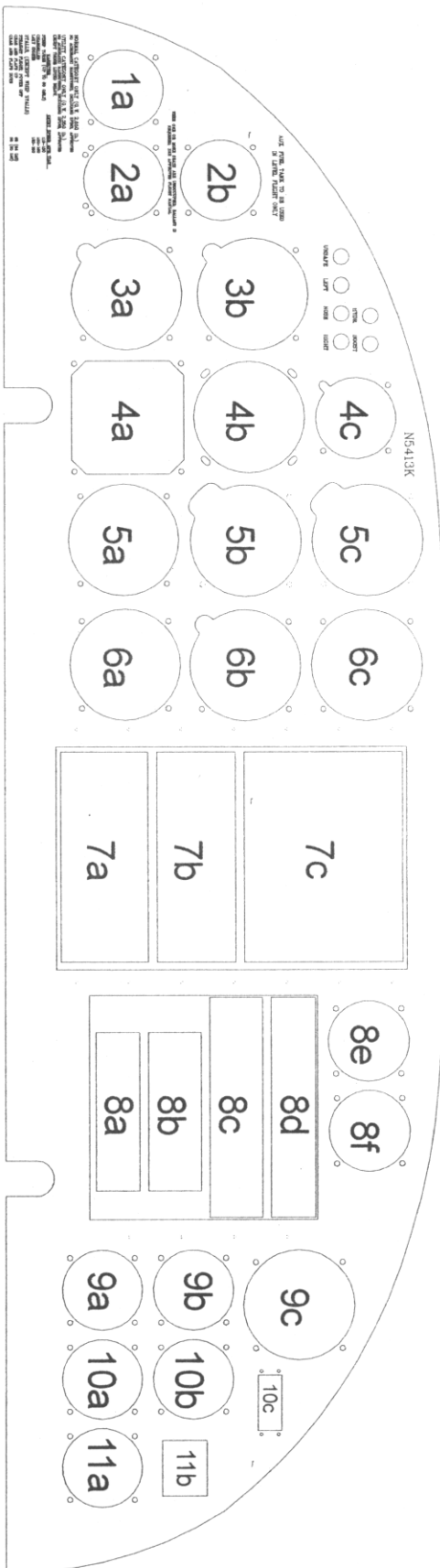
A dedicated 5A circuit breaker (Klixon PN: 7277-2-10) located in the switch panel to the left of the pilot labeled "XPDR" provides power to the transponder and encoder. The total aircraft system electrical load does not exceed 80% of the generating capacity after this alteration. Connections to aircraft power comply with 23.1365 "Electrical cables and equipment" (a, d, e) and 23.1357 "Circuit protective devices".

After installation a check for interactions with other systems was made to comply with 23.1309 "Equipment, systems and installations" (a)(1). A transponder system check was done in compliance with 91.413 "ATC transponder tests and inspections" and 91.411 "Altimeter and altitude reporting equipment tests and inspections".

A new weight and balance measurement in accordance with 43.13 chapter 10 has been done which includes this alteration.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- 1) **Introduction:** See above (Form 337 section 8).
- 2) **Description:** See above (Form 337 section 8).
- 3) **Control:** Complete operational information is included in the Garmin "GTX 327 Mode A/C Transponder Pilot's Guide".
- 4) **Servicing information:** Not applicable.
- 5) **Maintenance Instructions:** Maintenance of the GTX 327 is "on condition" only. Periodic maintenance is not required. Refer to the GTX 327 Maintenance Manual.
- 6) **Trouble shooting information:** Refer to the Garmin GTX 327 Maintenance Manual.
- 7) **Removal and replacement information:** The unit can be removed from its tray by turning the allen head screw in the middle of the unit's face plate counterclockwise. When free it can be pulled out. If the transponder is removed and reinstalled a functional check should be performed in accordance with section 3.2 of the Garmin GTX 327 Instruction Manual.
- 8) **Diagrams:** Not applicable.
- 9) **Special inspection requirements:** Not applicable.
- 10) **Application of protective treatments:** Not applicable.
- 11) **Data:** No structural fasteners were used in the installation of this unit.
- 12) **List of special tools:** No special tools are required to install or maintain any components associated with this alteration.
- 13) **For commuter category aircraft:** Not applicable.
- 14) **Recommended overhaul periods:** Not applicable.
- 15) **Airworthiness Limitation Section:** Not applicable.
- 16) **Revision:** A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 of the 337.



Reg: N5413K
 SN: NAV-4-2313B

N5413K Panel

SIZE	FSCM NO.	DWG NO.	REV
A		NAV-2452781-13888	1.0
SCALE	DATE	SHEET	
1:5	22 May, 2003	1 of 1	