

Service Bulletin

SB 1394T100-10RZ-A

Turn Coordinator

1394T100-10RZ

Modification A

Operating unit in a high temperature environment.

1. PLANNING INFORMATION

- A. Effectivity
This service bulletin is applicable to 1394T100-10RZ Autopilot Turn Coordinator manufactured or repaired by Mid-Continent Instrument Co., Inc. Effective date is August 4, 1999. This change is identified with an "A" following the serial number.
- New production serial number cut in will be at s/n 9908-1A
- B. Reason
Under some conditions of high temperature operation the warning flag could intermittently drop into view. This service bulletin replaces one capacitor with another that has the same value but a different dielectric composition to withstand a higher temperature environment.
- This service bulletin is optional based on individual owner request.
- C. Description
This service bulletin performs a single change to the Autopilot Turn Coordinator electronic circuit. It is the replacement of C5 with a new 0.047uf 63V capacitor, P/N 8018194 that is rated to +125° C.
- D. Approval
FAA and TSO approval not affected
- E. Manpower
This service bulletin may be accomplished and unit tested in approximately 0.50 man-hours.
- F. Material – Cost and Availability
The parts and materials necessary to accomplish this service bulletin are available from Mid-Continent Instruments. Refer to Section 3, Material Information, for part numbers. Check for current pricing.
- G. Tooling
A Soldering station and tweezers are necessary to perform this service bulletin. Normal ESD procedures should be observed.
- H. Weight and Balance
No change.

- I. Electrical load data
No change.
- J. Other Publications affected
None.

2. ACCOMPLISHMENT INSTRUCTIONS

- A. Remove cover from unit.
- B. From the circuit board side opposite the connector locate the capacitor directly below the top left standoff and above the Tach IC (LM2907N-8).
- C. Unsolder Black, Yellow and Blue pick-off wires and secure out of the way of capacitor circuit path.
- D. Remove the old capacitor, clean circuit paths and Install the new capacitor, P/N 8018194 in the same holes.
- E. Clean circuit paths for Black, Yellow and Blue pick-off wires and reconnect.
- F. Install cover onto unit.
- G. Test unit i/a/w test specification TDS170.
- H. Identify service bulletin completion by placing an "A" following the serial number on unit ID nameplate.

3. MATERIAL INFORMATION

A. Parts

New P/N	Qty.	Description	Old P/N	Disposition
8018194	1	Capacitor, 0.047uf 63V	1493-3	Discard