

Service Bulletin

from AVIONIC INSTRUMENTS, LLC

NOTIFICATION OF PRODUCT IMPROVEMENT (MINOR CHANGE) FOR THE PART NUMBER 1-002-0102-2173 STATIC INVERTER

1.0 Aircraft Effectivity: ATR 42/72

2.0 Inverter Effectivity: Units not identified as MOD B or above.

3.0 Type of Change: Minor Change (Amendment)

4.0 Change Description:

4.1 In accordance with Avionic Instruments ECN 7009 (DPC N° 486), the terminal studs on the part number 1-002-0102-2173 static inverter are being changed from 1-piece brass studs to a 2-piece bi-metal stud consisting of:

A. A Brass Sleeve (“Barrel”) for current carrying

B. A Stainless Steel insert for fastening.

5.0 Parts Affected:

A. 1-001-2605-0048 (Single Piece Stud) is replaced by Stud Insert 1-001-2605-0075 and Sleeve 1-001-2605-0064

B. 1-001-2605-0052 (Single Piece Stud) is replaced by Stud Insert 1-001-2605-0067 and Sleeve 1-001-2605-0063

6.0 Reason for Change:

6.1 Improve the robustness of the stud against over tightening.

7.0 Production Cut-In:

7.1 Newly produced static inverters, starting with serial number KC000326, have the new robust terminal studs.

8.0 Action:

8.1 Part number 1-002-0102-2173 static inverters that are not identified as MOD B may be returned for upgrade.

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9.0 Performance Impact

9.1 Electrical Performance/Connection

Subject change has no effect on electrical performance or connections.

9.2 Weight & Balance

Subject change has no significant impact on balance and weight (less than 0.04 lbs).

9.3 Interchangeability

Subject change has no impact on equipment interchangeability.

10.0 Required Resources

10.1 Manpower

One (1) qualified technician approximately one (1) hour.

10.2 Material

The following Avionic Instruments part numbers are required to make the subject change:

- A. Stud Insert 1-001-2605-0075 and Sleeve 1-001-2605-0064
- B. Stud Insert 1-001-2605-0067 and Sleeve 1-001-2605-0063

10.3 Cost

The subject change will be made at no cost.

10.4 Tools

- A. Standard Tools
- B. Drill
- C. Press

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10.5 Spares

The terminal block assembly (with the subject changed) may be ordered from Avionic Instruments under part number 1-002-0113-0804.

11.0 Testing

11.1 Each unit will be subject to acceptance testing in accordance with Avionic Instruments test procedure 1-001-5004-0213.

12.0 Completion

12.1 Upon completion of the modification, the label on the top panel will be changed to indicate MOD LVL. "B" (see Figure 1).

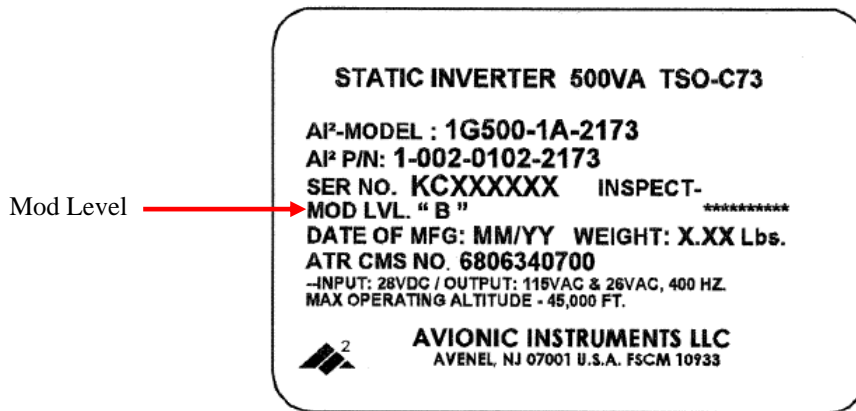


FIGURE 1: MOD LEVEL LOCATION

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13.0 Approval

13.1 The content of this document is approved under the authority of DOA N°EASA21J044.

14.0 Contacts

14.1 For further information, please contact Avionics Instruments LLC Repair Department/Customer Service Manager, Mr. Tom Conover by one of the following means:

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