



SERVICE BULLETIN REVISION TRANSMITTAL SHEET

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SUBJECT: EQUIPMENT FURNISHINGS – COCKPIT ADDITIONAL ELECTRICAL SUPPLY – STATIC INVERTER – CAPACITOR C306 REPLACEMENT.

TRANSMITTAL: Service Bulletin 1830-25-37 Initial Release (Revision 1)

This page transmits Revision NO. 1 of Service Bulletin NO. 1830-25-37

Additional Work

No additional work is required by this revision for aircraft modified by any previous issue.

Reason

Revision NO. 1 issued to revise Component Maintenance Manual references used throughout the Service Bulletin.

Changes

PLANNING INFORMATION	
REFERENCES	COMPONENT MAINTENANCE MANUAL NO. UPDATED
ACCOMPLISHMENT INSTRUCTIONS	
TEST	COMPONENT MAINTENANCE MANUAL NO. UPDATED

Filling Instructions

This Service Bulletin has been generated electronically and is reissued as a complete document

History of Previous Revisions

Revision NO. 0 issued as initial release.

Revision Sequence

Initial Release (Rev 0): October 13th, 2016

Revision NO. 1: Oct 6th, 2017



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1. Planning Information

A. Effectivity

Static Inverter Part Number 1-002-0102-1830, Serial Numbers AA11135265 to AA11137323. The units were produced from September 10, 2012 to November 25, 2014.

Note: For all static inverters outside the effectivity range, Amendment A may be added to the unit at a cost whenever it is returned to the shop. Units outside the effected serial numbers either already incorporate the latest version of the capacitors (AI² P/N 1-001-0306-0054) or are not impacted by this issue.

B. Concurrent Requirements

None

C. Reason

Analysis conducted by Avionic Instruments, ACI Technology INC, and CALCE, has determined that a specific manufacturer's supply of capacitor C306 (AI² P/N 1-001-0306-0054) may experience failure. The replacement of this capacitor with the latest version of AI² P/N 1-001-0306-0054 will greatly reduce the likelihood of this condition. The replacement capacitors are supplied from a different manufacturer and are subjected to an additional quality screening.

D. Description

Replacement of the capacitor will require partial disassembly of the Static inverter Unit, including removal of the top cover, PCB, and Bridge assembly.

E. Compliance Recommendation

Recommended – Service Bulletin recommended to be accomplished to prevent significant operational impact.

F. Approval

The modification procedures described in this Service Bulletin are reviewed and technically accepted by Airbus Design Office to apply to the Airbus fleet affected. This Service Bulletin does not contain any change information that revises the equipment definition covered by Airbus approved modifications.



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G. Manpower

1 man-hour.

H. Weight and Balance

None.

I. Electrical Load Data

Not Changed.

J. Software Accomplishment Summary

Not applicable.

K. References

- Component Maintenance Manual No. 24-20-07 (AI2 1-001-4902-0006)
- EDES No. 16-01.

L. Other Publications Affected

Data sheet (specification drawing) 1-001-0306-0054 Rev "F" changes to Data sheet 1-001-0306-0054 Rev "G".

M. Interchangeability of Parts

Fully interchangeable.



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2. Material Information

A. Material

1. Price

The modification performed in this service bulletin will be performed free of charge for the airlines if the modifications are performed by AI² for units within the effectivity range (Serial Numbers AA11135265 to AA11137323). The modification kit will be provided free of charge to maintenance repair organizations able to demonstrate ownership of an effected serial number.

2. Procurement addresses

Avionic Instruments LLC
1414 Randolph Avenue
Avenel, NJ 07001
United States of America

Phone: (732) 382-4996
Email: repair@avionicinstruments.com

B. Industry Support Information

The modification performed in this service bulletin will be performed free of charge for the airlines if the modifications are performed by AI². The modification kit will be provided free of charge to maintenance repair organizations. This industry support is valid for a duration of 3 years from the initial release of this service bulletin. Thereafter, normal catalog price will be charged for performing this modification and/or for ordering modification kits.

Any units received by AI² for service bulletin upgrade will be subjected to the ATP prior to the upgrade being completed. AI² will notify the airline customer of any damage or degradation beyond the scope of the service bulletin discovered during the initial testing. The customer will be quoted prior to proceeding with any work beyond the scope of the service bulletin.

C. Material Necessary for Each Component

One replacement capacitor is required for the modification explained in this Service Bulletin.

<u>Quantity</u>	<u>Part Number</u>	<u>Nomenclature</u>
1	1-001-0306-0054	Replacement C306 Capacitor
1	1-001-2501-0131	Amendment Label

D. Spare Parts Availability

Not applicable.

E. Re-identified Parts

Not applicable.

F. Tooling – Price and Availability

Not applicable.



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3. Accomplishment Instructions

CAUTION:

DISCONNECT INPUT POWER PRIOR TO HANDLING OR REMOVAL OF THE COVER OF THE STATIC INVERTER TO PREVENT ELECTRICAL SHOCK.

Inspection and, if necessary, replacement of capacitor C306 requires the installer to gain access to the Bridge Assembly.

Instructions for Part Number 1-002-0102-1830, Model Number 2A350-1AS-1830

A. General

The C306 capacitor requiring replacement will appear similar to the one shown in the figure below (Figure A). The key characteristic to identify the suspect supply of capacitor C306 is the MPPS2X code. The suspect capacitor supply will contain the following information printed on its side:

Marking Details:

SEC
MPPS2X
4.0UF ±10%125VAC
1-001-0306-0054
XXXX



Figure A – Suspect supply of capacitor C306 (AI² P/N: 1-001-0306-0054)



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B. Disassembly

1. Remove three (3) top screws, two (2) rear screws and eight (8) side screws from the top cover of the unit. All screws in this step use washers (Figure 1).
2. Carefully remove the top cover (Note: there may be a seal on the corners where the top cover meets the rear panel, remove this as well).
3. Remove four (4) corner screws and one (1) middle screw from the PCB. All screws in this step use washers (Figure 2).
4. Locate the three connection points under the PCB and carefully lift at each point to remove the PCB from the unit (Figures 3 and 4).
5. Turn the unit over so that the base faces upward.
6. Remove one (1) side screw and washer that connects the bridge assembly to the front panel (Figure 5).
7. Remove five (5) flat head screws and washers from the base of the unit (Figure 5).
8. Turn the unit over to its original orientation (Base downward).
9. Carefully remove the bridge from the unit. (Note: there will be adhesive between along the edge of the bridge, use caution) (Figure 6).
10. Locate the capacitor (Figure 6). If the capacitor within the unit is similar to Figure A, remove and proceed to Step C.1. If it does not contain this capacitor, proceed to Step C.2.



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C. Assembly

1. Install the new capacitor in the location where the old capacitor was removed from. (Note: the new capacitor will be marked with a red dot) (Figure 6).
2. Reattach the Bridge Assembly using one (1) screw and washer to connect the bridge assembly to the front panel, and five (5) screws and washers to connect the bridge assembly to the base (Figure 5).
3. Carefully reattach the PCB to the three connection points. Ensure all three points are connected firmly (Figures 3 and 4).
4. Fasten the PCB to the unit using four (4) corner screws, and one (1) center screw. All screws in this step use washers (Figure 2).
5. Place the top cover back on to the unit.
6. Secure the top cover using three (3) top screws, two (2) rear screws and eight (8) side screws. All screws in this step use washers.

D. Re-identification of Parts

Upon completion of the modification described in this service bulletin, a “Modification Status” label is to be added to the top cover of the unit (See Figure B). The label is to be marked to indicate the modification status as level “A”.

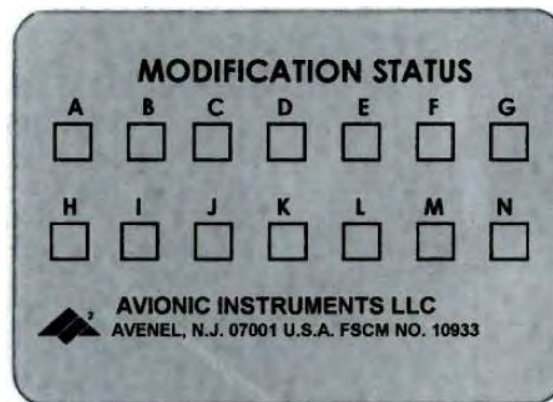


Figure B – Modification Status Label

E. Test

Refer to the “Testing and Fault Isolation” section of component maintenance manual number 24-20-07 (AI2 1-001-4902-0006).



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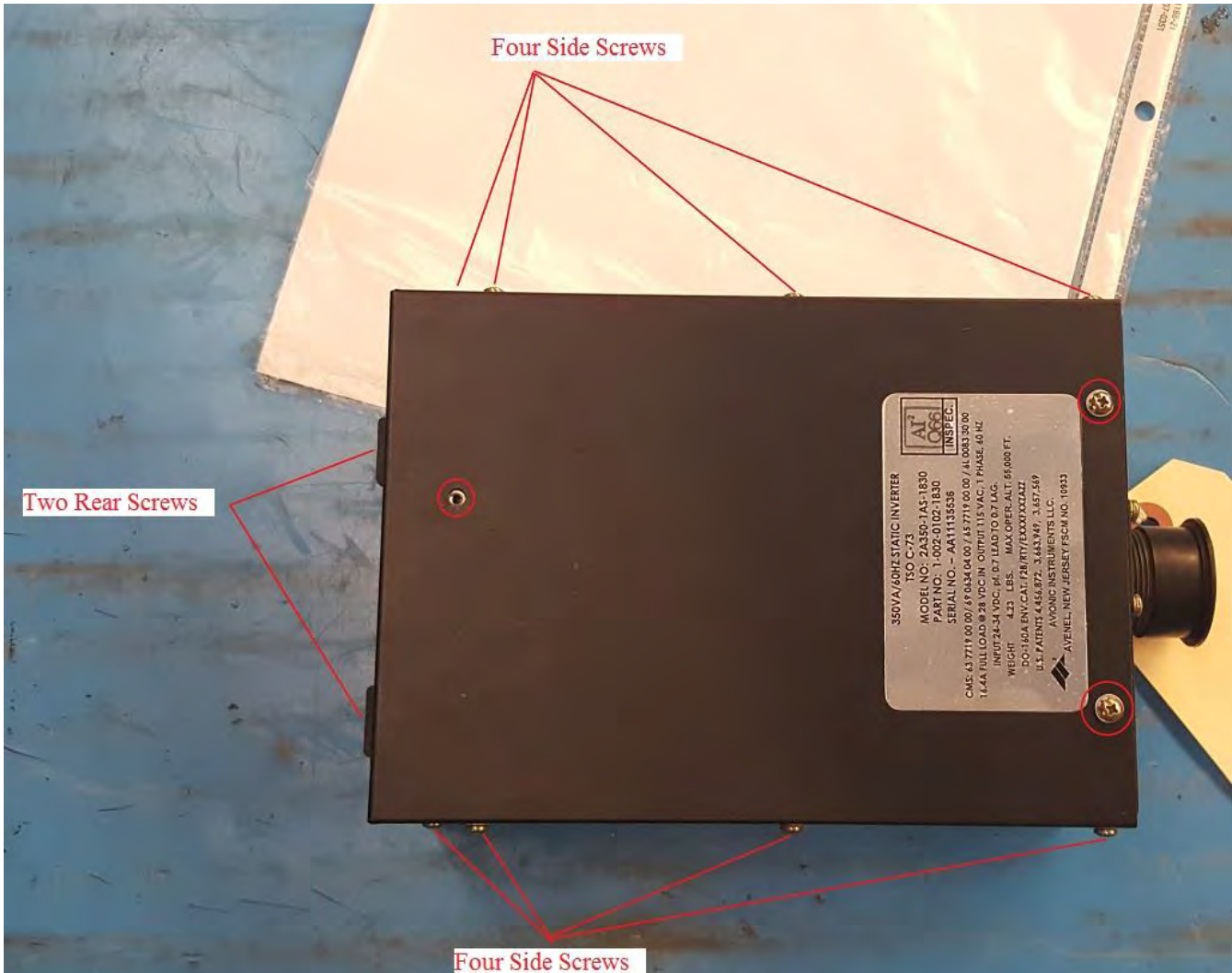


Figure 1 – Top Cover View (Exterior Screw Locations)

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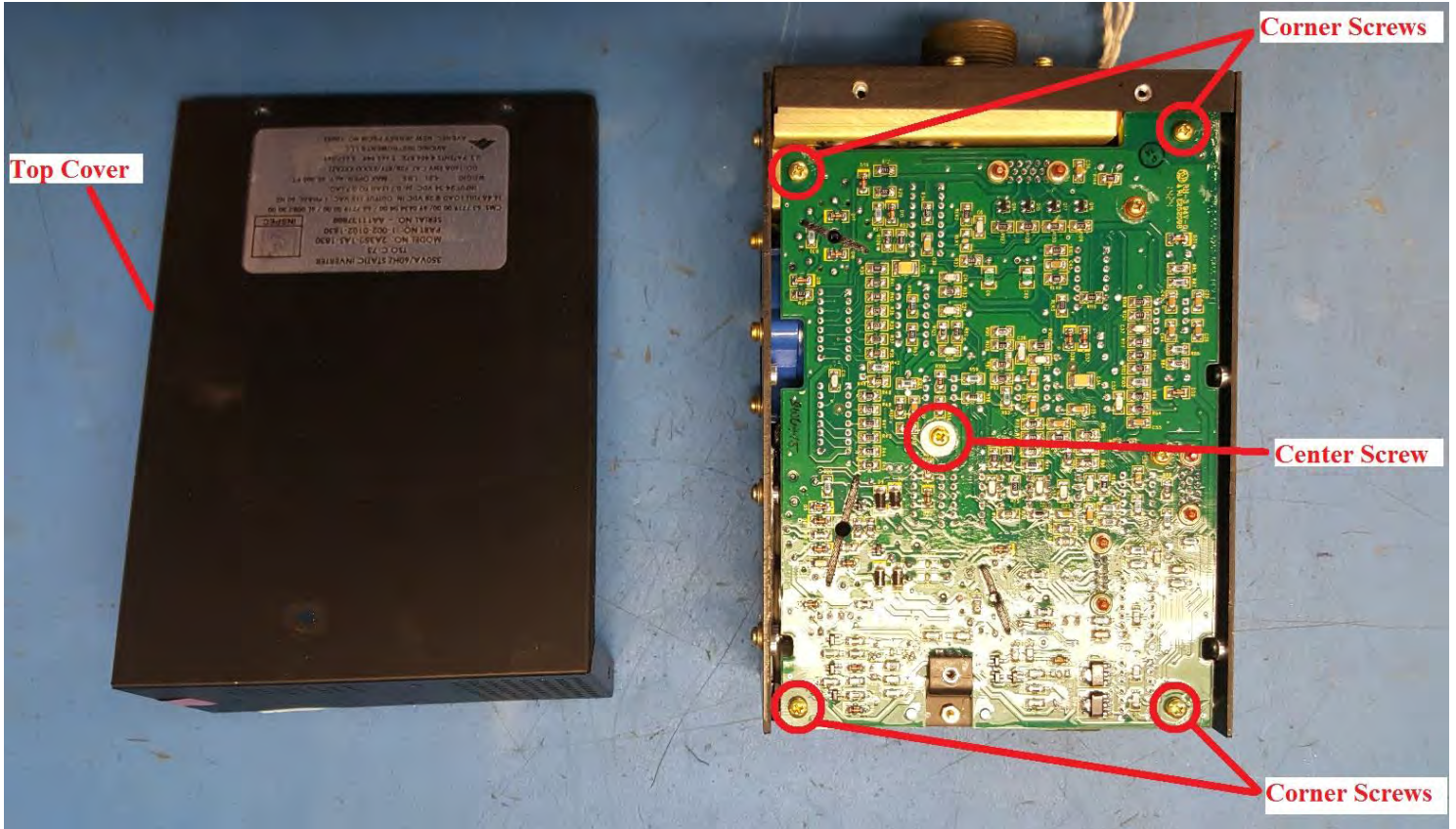


Figure 2 – Top Cover removed (PCB Screw Locations)