



PILATUS AIRCRAFT LTD. CH-6371 STANS, SWITZERLAND

SERVICE LETTER

SUBJECT: HONEYWELL SERVICE BULLETIN KRA 405B-13

To all Customers and Operators:

Date: Jul 25/07

This Service Letter is issued to draw attention to the following vendor information:

Honeywell Service Bulletin KRA 405B-13

Honeywell have introduced a Service Bulletin (Honeywell Service Bulletin KRA 405B-13) to improve the performance and reliability of the Radar Altimeter Pilatus P/N 985.99.11.570 (Honeywell P/N 066-01153-0101).

The Honeywell Service Bulletin KRA 405B-13 makes several circuit changes that improve the unit's noise resistance and thereby reduce peaking (false low altitude indications).

PILATUS recommends that Customers / Operators who experience this anomaly with their radar altimeters, incorporate Honeywell Service Bulletin KRA 405B-13 to prevent further occurrences.

Pilatus has allocated a new part number (985.99.11.550) to the modified Radar Altimeters.

Operators requiring further information on this subject, please contact one of the addresses given below:

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SWITZERLAND.

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Attachments: Honeywell Service Bulletin KRA 405B-13

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PC12
SERVICE LETTER

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Service Bulletin

BULLETIN NO: KRA 405B-13
KRA 405B Radar Altimeter

EFFECTIVITY

KRA 405B units P/N 066-01153-0101, -0202, -2001, and -4001, S/N 5206 and below. Units with serial numbers above those stated have Mod 13 incorporated during original manufacturing.

Mods 9, 11, and 12 are prerequisites for Mod 13 in units P/N 066-01153-0101, -0202, and -2001.

REASON

The KRA 405B has been experiencing occasional false low-altitude readings (peeking) at altitudes over 2500 feet. Mod 13 makes several circuit changes that improve the unit's noise resistance.

DESCRIPTION

This modification consists of changing the value of R64, R7, and C17, cutting one circuit board path, adding one magwire, and installing a new outer cover.

COMPLIANCE

Recommended at the next scheduled maintenance period.

WARRANTY INFORMATION

Warranty credit or payment has been authorized for the modification of units that are still under the original new product warranty. Warranty coverage for Mod 13 expires 31 January 2008.

To receive warranty credit or payment for this modification, submit a properly completed warranty claim. For a unit modified by an appropriately rated Honeywell Service Center, a maximum of three (3.0) hours labor plus parts may be requested. For a unit modified by Honeywell in Olathe, Kansas, a maximum of one (1.0) hour labor for removal and re-installation may be requested.

APPROVAL

This modification does not affect the original approval.

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MANPOWER

Three (3.0) hours labor including testing to complete the modification.

OR

One (1.0) hour labor for unit removal and installation only.

REFERENCES

KRA 405B Maintenance Manual, P/N 006-15536-XXXX.

MODIFICATION PROCEDURE

1. Disassemble the unit according to maintenance manual procedures to access Receiver/Transmitter Board P/N 200-09034-0010. (Mod 13 cannot be installed on units containing earlier versions of the Receiver/Transmitter Board.)

CAUTION

Any disassembly/assembly of the KRA 405B MUST be done at a static-safe workstation. Removed modules should be placed in static-safe bags when not installed in the unit.

2. Replace R7 with a new R7 P/N 139-03010-0010.
3. Replace C17 with a new C17 P/N 106-05153-0046.
4. Replace R64 with a new R64 P/N 139-02672-0010.
5. Cut the circuit path as shown in Figure 2.
 - A. Remove U10.
 - B. Cut the trace to the pad of U10 pin 4. This cut must be made at the inside edge of the pad, separating it at the pad from the path connecting it.
 - C. Install a new U10.
6. Attach a piece of magwire connecting output tab of U13 pin 4 to U10 pin 4. Route the magwire *exactly* as shown in Figure 2.
7. See Figure 1 as needed. Inspect the unit cover to determine whether it is the new Cover P/N 047-11281-0001 or the old Cover P/N 047-11016-0001. (Some newer units might already have the new cover installed.) The new cover has 5 locations on each side edge for 1 spring clip each, for a total of 20 spring clips on the sides. The old cover has 4 locations on each side edge for 2 spring clips each, for a total of 32 spring clips on the sides. Both covers have 6 spring clips on the back.

If the unit has the old cover, remove the 6 spring clips P/N 090-01001-0002 from the back of the cover. Install them on the new cover P/N 047-11281-0001. Install 20 new spring clips P/N 090-01001-0001 on the new cover. Discard the old cover.
8. Reassemble the unit according to maintenance manual procedures, installing the new Outer Cover P/N 047-11281-0001 in place of the old cover.

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IDENTIFICATION PROCEDURE

Stamp an X or make a permanent mark on the modification section of the Unit Serial Tag to indicate that Mod 13 is complete.

TESTING PROCEDURE

Test the unit according to Section 5 of the maintenance manual.

MATERIAL INFORMATION

The parts needed to modify one KRA 405B according to this service bulletin are:

Part Number	Qty	Description
024-05065-0000	As required	Magwire, 28AWG solid (or equivalent)
047-11281-0001	1	Cover
090-01001-0001	20	Spring Clip
106-05153-0046	1	Capacitor, CH, 15KpF, X7R, 50V (C17)
120-03651-0001	1	Quad 45MHZ Op Amp
139-02672-0010	1	Resistor, CH, 26.7K Ω , .1W, 1% (R64)
139-03010-0010	1	Resistor, CH, 301 Ω , .1W, 1% (R7)

Also needed is some shop-supplied Tak Pak Adhesive P/N 016-01144-0000 and Tak Pak Accelerator, P/N 016-01144-0001 (or equivalent).

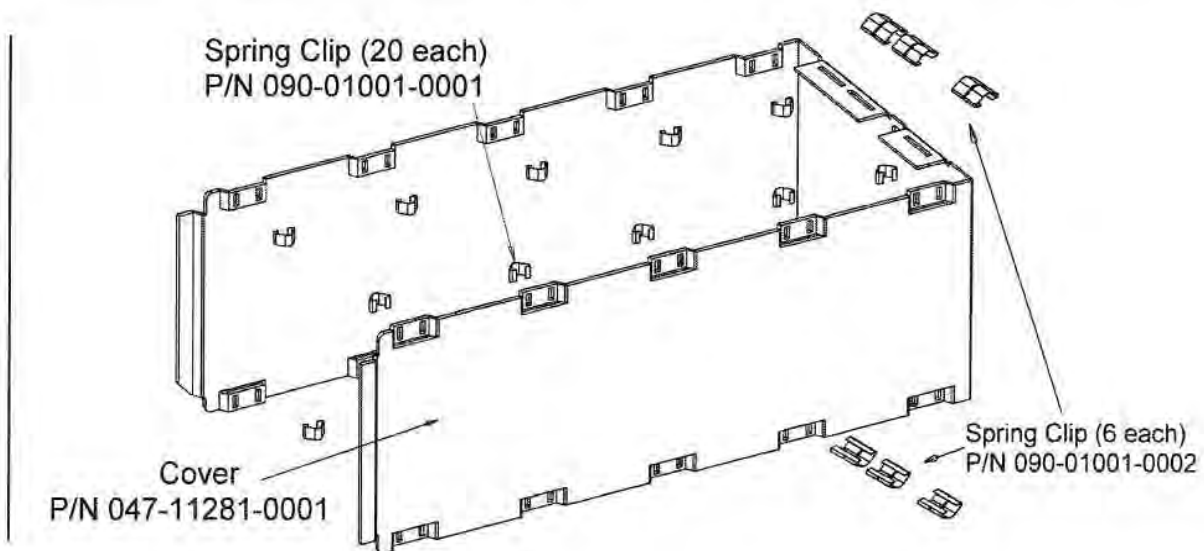


Figure 1
New Outer Cover

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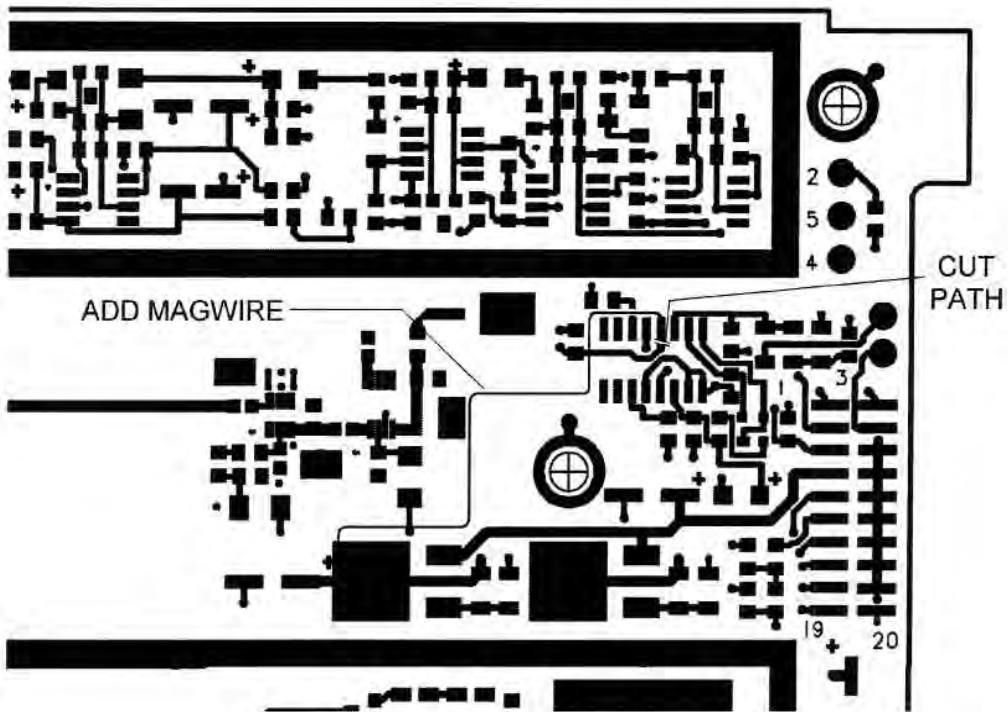
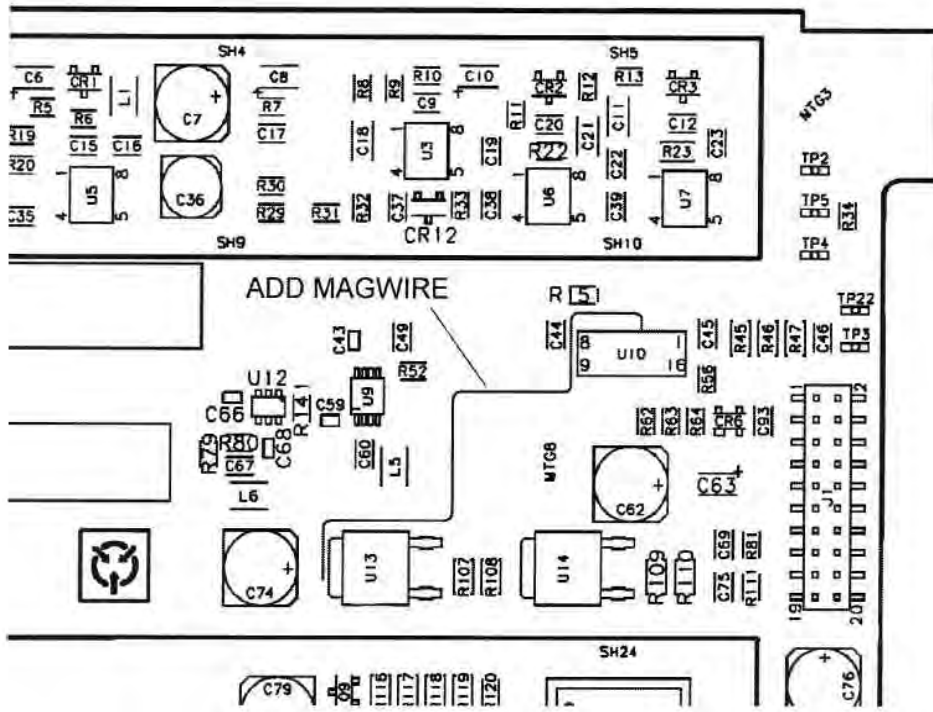


Figure 2
Receiver/Transmitter Board Assembly Drawing
300-09034-0010 Rev F
Enlarged Detail