
SERVICE BULLETIN

N° 189-288

DATE: March 11, 2021

REV. : /

TITLE

ATA 34 - RADIO ALTIMETER ALT-4000 REPLACEMENT

REVISION LOG

First Issue

An appropriate entry should be made in the aircraft log book upon accomplishment.
If ownership of aircraft has changed, please, forward to new owner.

1. PLANNING INFORMATION

A. EFFECTIVITY

AW 189 helicopters equipped with Radio Altimeter ALT-4000 P/N 822-0615-206 with S/N listed in Table A and not already marked with letter "C" on unit modification plate.

Radio Altimeter ALT-4000 P/N 822-0615-206 kept in stock with S/N listed in Table A and not already marked with letter "C" on unit modification plate.

TABLE A
Radio Altimeter ALT-4000 P/N 822-0615-206 affected S/Ns

28CYP	4L113T	4LD51K	4M3CH9	4M3F05	4M3HL0	4M3KTP
2V72D	4L1141	4LD51T	4M3CHC	4M3F07	4M3HL7	4M3KTV
3Y9GN	4L1146	4LD51X	4M3CHD	4M3G2C	4M3HL8	4M3KTX
4K96X	4L114C	4LD64R	4M3CHF	4M3G2K	4M3HLP	4M3KTY
4L0XLD	4LD41P	4LD64T	4M3CHR	4M3G2R	4M3HLR	4M3KV0
4L0XLG	4LD41R	4LD64X	4M3CK1	4M3G2V	4M3HLT	4M3KVF
4L0XLM	4LD41V	4LD650	4M3CK2	4M3G32	4M3HLX	4M3KVG
4L0XLN	4LD41Y	4LD656	4M3CK4	4M3G34	4M3HLY	4M3KVH
4L0XLP	4LD420	4LD657	4M3CK6	4M3G37	4M3HM0	4M3KVK
4L0XLR	4LD423	4LD658	4M3DLX	4M3G38	4M3HM1	4M3KVN
4L0XM4	4LD425	4LD65F	4M3DM4	4M3G3C	4M3HM3	4M3KVP
4L0Y9V	4LD426	4LD70G	4M3DM7	4M3G3F	4M3HMY	4M3KVR
4L0YC0	4LD42K	4LD70L	4M3DMF	4M3G3H	4M3K9T	4M3KVT
4L0YC1	4LD42L	4LD70M	4M3DMG	4M3G3K	4M3K9V	4M3KVX
4L0YC3	4LD42N	4LD70R	4M3DMH	4M3G3N	4M3KC3	4M3KX1
4L0YC6	4LD42T	4LD70T	4M3DMK	4M3G3P	4M3KC4	4M3LFL
4L0YC7	4LD42V	4LD711	4M3DN2	4M3G40	4M3KC7	4M3LG2
4L0YCC	4LD430	4LD71C	4M3DN3	4M3GNR	4M3KCD	4M3LG7
4L0YCD	4LD431	4LD71F	4M3DN5	4M3GP4	4M3KCL	4M3LR1
4L0YCR	4LD50F	4LD71G	4M3DNF	4M3GPK	4M3KCN	4M3LRD
4L0YCV	4LD50N	4LD721	4M3DYF	4M3GPL	4M3KCR	4M3LRN
4L0YD0	4LD50P	4LD724	4M3DYL	4M3GPN	4M3KDK	4M3LRP
4L0YD1	4LD50R	4M3CGP	4M3DYM	4M3GPP	4M3KDL	4M3LRT
4L101K	4LD515	4M3CGT	4M3DYP	4M3HKN	4M3KTF	4ND53
4L113R	4LD516	4M3CH5	4M3F03	4M3HKX	4M3KTL	4R4C5

B. COMPLIANCE

Within and not later than 6 months after the issue of this Service Bulletin.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the replacement of RADALT P/N 822-0615-206.

E. DESCRIPTION

Radio Altimeter supplier identified a potential manufacturing issue due to a faulty ferrite beads on the power supply assembly of the RADALT. This issue could lead the RADALT indicator to show an altitude of approximately 1400 feet instead of No Computed Data (NCD) while the helicopter is above 2600 feet.

Leonardo Helicopters decided to issue this Service Bulletin to instruct Customers to replace the affected RADALT.

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives. If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

G. MANPOWER

To comply with this Service Bulletin one (1) MMH are deemed necessary.

MMH are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

1) PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 89-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 89-A-34-43-01-00A-520A-A	Number 1 radio altimeter receiver-transmitter - Remove procedure.	-
DM03 89-A-34-43-01-00A-720A-A	Number 1 radio altimeter receiver-transmitter - Install procedure.	-
DM04 89-A-34-43-05-00A-520A-A	Number 2 radio altimeter receiver-transmitter - Remove procedure.	-
DM05 89-A-34-43-05-00A-720A-A	Number 2 radio altimeter receiver-transmitter - Install procedure.	-

2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Part Data
ITEP	Illustrated tool and equipment publication
LHD	Leonardo Helicopters Division
MMH	Maintenance Man Hours
N.A.	Not Applicable
NCD	No Computed Data
P/N	Part Number
RAD ALT	Radio Altimeter receiver/transmitter
SB	Service Bulletin
S/N	Serial Number

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	822-0615-206		Radio altimeter receiver-transmitter	2	.	(1)	

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

2) CONSUMABLES

Refer to AMDI for the consumable materials required to comply with the AMP DMs referenced in the accomplishment instructions.

3) LOGISTIC MATRIX

N.A.

NOTE

(1) Item necessary only in case of replacement of an affected unit.

B. SPECIAL TOOLS

Refer to ITEP for the special tools required to comply with the AMP DMs referenced in the accomplishment instructions.

C. INDUSTRY SUPPORT INFORMATION

WARRANTY: Owners/Operators who comply with the instructions of this Service Bulletin no later than the applicable date in the “Compliance” section will be eligible to receive required materials on free of charge basis, except for Consumable Materials and Special Tools.

Customers who fail to comply with the instructions in this Service Bulletin before the compliance date are not eligible for the aforementioned special policy.

Please Issue relevant MMIR form to your Warranty Administration Dpt.

NOTE1: LHD will provide the replacement only to Customers that will confirm LHD’s provision loading original PL and Invoice received – If the required documentation will be not loaded on each request of replacement, the relevant MMIR will be rejected;

NOTE2: WRM will include RETURN MATERIAL AUTHORIZATION (RMA) number; the unit disembarked from the aircraft (RADIO ALTIMETER P/N 822-0615-206) has to be returned to LHD within thirty (30) calendar days after the shipment of the replacement part. In case of missing return within thirty (30) calendar days, Customer will be invoiced for the price of the replacement part (P/N 822-0615-206).

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTE

Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.

NOTE

If the unit modification plate of radar altimeter is marked with letter "C", no further action is needed.

NOTE

The affected radio altimeter receiver-transmitter P/N 822-0615-206 kept in stock may be directly sent to Leonardo Helicopters and replaced with a serviceable new one. In this case steps 1 thru 6 are not required.

1. In accordance with AMP DM 89-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
2. In accordance with AMP DM 89-A-34-43-01-00A-520A-A, remove from the helicopter the Number 1 radio altimeter receiver-transmitter P/N 822-0615-206 and send it to Leonardo Helicopters.
3. In accordance with AMP DM 89-A-34-43-01-00A-720A-A, install on the helicopter a serviceable Number 1 radio altimeter receiver-transmitter P/N 822-0615-206.
4. In accordance with AMP DM 89-A-34-43-05-00A-520A-A, remove from the helicopter the Number 2 radio altimeter receiver-transmitter P/N 822-0615-206 and send it to Leonardo Helicopters.
5. In accordance with AMP DM 89-A-34-43-05-00A-720A-A, install on the helicopter a serviceable Number 2 radio altimeter receiver-transmitter P/N 822-0615-206.
6. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
7. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".

