



SERVICE BULLETIN

**MADELEC AERO
(F9503)**

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**SERVICE BULLETIN
OPTIONAL**

ICE AND RAIN CONDENSATION - LIGHTED ICING INDICATOR PNR 864-001

IMPROVEMENT OF ILLUMINATION device RELIABILITY (Upgrade to Amendment A)

1. PLANNING INFORMATION

A. EFFECTIVITY

It is applicable on LIGHTED ICING INDICATOR PNR 864-001.

B. CONCURRENT REQUIREMENTS

Not applicable

C. REASON

The proposed modification will increase corrosion protection of the illumination source device.

D. DESCRIPTION

This VSB describes the replacement of a sub part (internal LED Assy) by an improved sub part. This change is recorded by the amendment A (noted AMDT A) which is marked on an external marker sleeve.

E. COMPLIANCE

Application of this Service Bulletin is optional.

The incorporation of this modification will be introduced on in service units upon operator request during a repair opportunity at authorized repair stations.

The incorporation of this modification will be included in production units from November 2007

F. APPROVAL

This Service Bulletin does not contain any change information that revises the equipment approved design standard, therefore its technical content does not require supplementary regulatory approval.



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G. MANPOWER

Man hours required for the modification only (disassembly/assembly) : 1 Hour + 24H for sealent drying.

H. WEIGHT AND BALANCE

No effect on the actual weight

I. ELECTRICAL LOAD DATA

Not changed

J. SOFTWARE ACCOMPLISHMENT SUMMARY

Not applicable

K. REFERENCES

Madelec Aero/Airbus Equipment Definition Evolution Sheet EDES 07-61 issue 1
Madelec Aero ACMM 30-81-12
VSIL F9503-30-002

L. OTHER PUBLICATIONS AFFECTED

None

M. INTERCHANGEABILITY AND INTERMIXABILITY OF PARTS

PNR 864-001 is fully interchangeable with PNR 864-001 AMDT A.

2. MATERIEL INFORMATION

A. MATERIAL-PRICE AND AVAILABILITY

The modification is possible by the procurement of following replacement parts :

QTY	PART NUMBER	KEYWORD
1	864-10311	WIRES ASSY
1	864-105	SEAL
1	864-1032	AMDT A MARKER SLEEVE
1	864-106	GREEN LED

For parts procurements and relevant costs, please contact :

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B. INDUSTRY SUPPORT INFORMATION

Not applicable



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C. MATERIAL NECESSARY FOR EACH COMPONENT

(1) Material to be purchased

Hardware parts necessary for this Service Bulletin:

NEW PNR	KEYWORD	OLD PNR	NAME	QTY
864-10311	WIRES ASSY	/	/	1
864-105	SEAL	864-105	SEAL	1
864-1032	AMDT A MARKER SLEEVE	/	/	1

(2) Material supplied by the operator or repair station

Consumable material necessary for this Service Bulletin :

REFERENCE	SPECIFICATION	SOURCE
Adhesive Loctite 243	MIL S 46163	Local supply
Sealant	Loctite Silicomet JS 544	Local supply

D. TOOLING-PRICE AND AVAILABILITY

Tools necessary for the application of this Service Bulletin :

REFERENCE	SPECIFICATION	SOURCE
Fork wrench	N°13	Local supply
Heating tool	/	Local supply
Torquemeter	/	Local supply

3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

For a full description of the procedure, refer to the related sections of ACMM 30-81-12

B. DISASSEMBLY

CAUTION: INSURE THAT PAINTED PARTS WILL NOT BE DAMAGED DURING DISASSEMBLY.

- (1 Diisassemble the equipment to gain acces to the LED Assy.
)
- (2 Unscrew the COVER (10) from the MAIN PART (60).
)
- (3 Remove and discard the SEAL (40) from the COVER (10) and pull to remove the GREEN LED (30)
)
- (4 Remove the blue sealing from the wires junction at the rear of MAIN PART (60).
)
- (5 Push using set of wires to extract the old LED ASSY from the MAIN PART (60).
)
- (6 Scrap the removed LED ASSY.
)

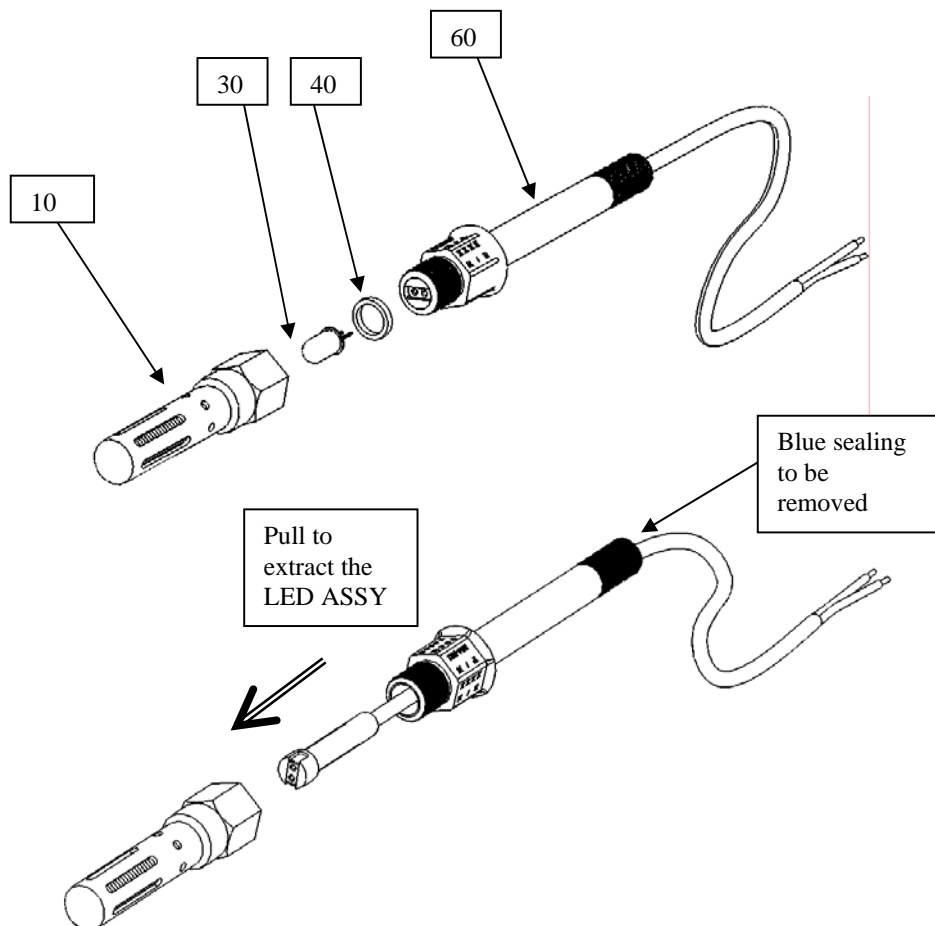


Figure 1
Disassembly of the unit

C. MODIFICATION

CAUTION: INSURE THAT PAINTED PARTS WILL NOT BE DAMAGED DURING MODIFICATION.

- (1 Replacement of the old LED Assy.
)
- (2 Install the new WIRES ASSY (50) inside the MAIN PART by inserting first the wires.
)
- (3 Make sure that the assy is corrected installed in order to allow the assembly of MAIN PART
) (60).

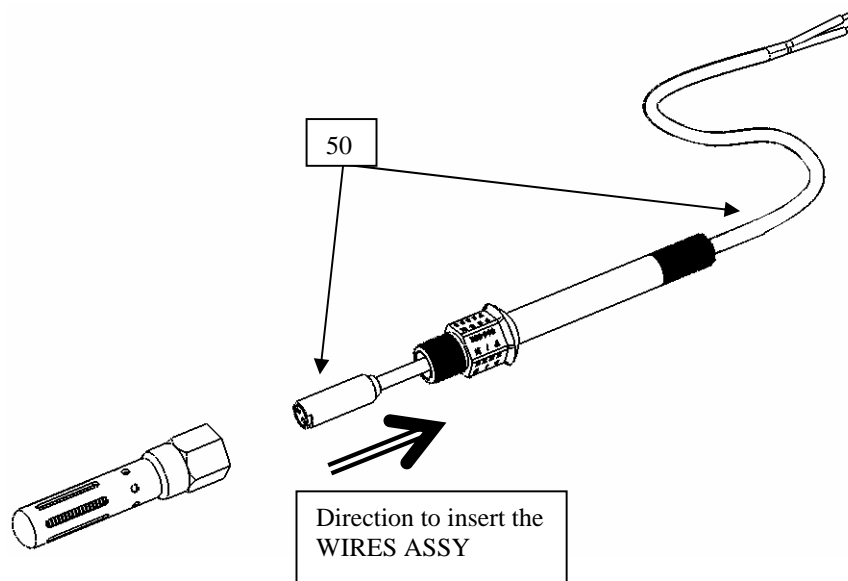


Figure 2
Modification of the unit

D. ASSEMBLY

CAUTION: INSURE THAT PAINTED PARTS WILL NOT BE DAMAGED DURING ASSEMBLY.

CAUTION: SEAL shall be replaced after each disassembly.

- (1 Install GREEN LED (30) into the relevant MAIN PART (60) socket.
) Please note the polarity of the LED in accordance with ACMM 30-81-12 (SUBTASK 30-81-12-440-001-A01).
- (2 Put the SEAL (40) in position inside the COVER (10) equipped with its internal plastic diffuse r.
) r.
- (3 Apply adhesive Loctite 243 (MIL S 46163) on thread of MAIN PART and torque the COVER (10) between 3.95 and 4.05 N.m.
) (10) between 3.95 and 4.05 N.m.
- (4 Apply sealant JS 544 at the interface between MAIN PART (60) and wire assembly
) Please do not move during the 24H hour sealant drying period.
CAUTION: the sealing application shall not affect the quality of thread used for aircraft interface fastening.
- (5 Re identify Part marking in accordance with section E.
)

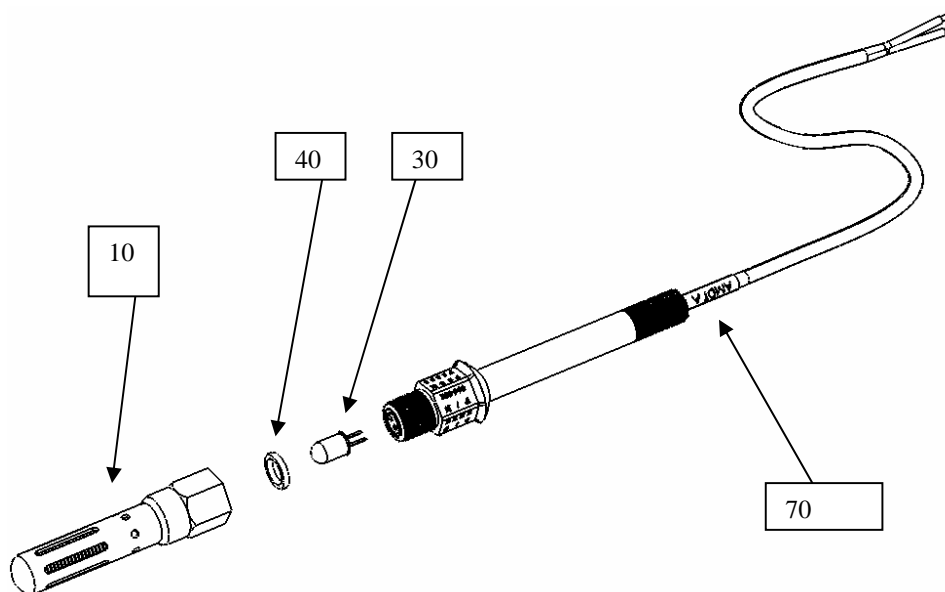


Figure 3
Assembly of the modified equipment

E. RE IDENTIFICATION

After the embodiment of this Service Bulletin, please re-identify as per below:

- Place the AMDT A MARKER SLEEVE (70) over WIRE ASSY (50), ensuring it is installed as close as possible to the rear of MAIN PART (60).
- Secure AMDT A MARKER SLEEVE (70) by appropriately heating with a dedicated heating tool.



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F. TESTS

- Ensure that AMDT A MARKER SLEEVE (70) is correctly located.
- Confirm all painted parts remain undamaged.
- Note the correct function of the unit, as detailed in ACMM 30-81-12 (SUBTASK 30-81-12-440-001-A01).
- Should each test prove successful, unit shall be packaged and considered ready to return to service.