

Honeywell

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SERVICE INFORMATION LETTER

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A. Subject

Transition of Honeywell Automatic-Fixed Emergency Locator Transmitter (ELT) from RESCU 406AF/AFN to RESCU 406AFN2

B. Effectivity

- (1) This service bulletin introduces the RESCU 406AFN2™ ELT and aircraft identification module two (AIM2), which replaces the RESCU 406AF™ and the RESCU 406AFN™, AIM and the navigation aircraft identification module (NAIM) units as shown in [Table 1](#).

Table 1. Replacement Table

Existing Configuration RESCU 406AF™, 406AFN™		New Replacement Configurations RESCU 406AFN2™ and AIM2	
Description	Part Number	Description	Part Number
RESCU 406AF™	1152682-1	RESCU 406AFN2™	51090130-2 or 51090414-1 or 51090152-2
RESCU 406AFN™	1152682-2	RESCU 406AFN2™	51090130-2 or 51090414-1 or 51090152-2
RESCU 406AFN™	1152682-3	RESCU 406AFN2™	51090130-2 or 51090414-1 or 51090152-2
AIM	1152780-1	AIM2	51090136-1
NAIM	1153396-1	AIM2	51090136-1

Table 2. Battery Impacted

Description	Part Number
RESCU 406AF/AFN™ batteries	1096449-1 1096801-1 1096801-2

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C. Applicability

- (1) All Boeing and Airbus platforms with ELT RESCU 406AF/AFN.

D. References

- (1) To find, see, and download Honeywell Technical Publications, go to www.myaerospace.com.
- (2) The document(s) that follow(s) is/are associated with this service information letter. Unless specified differently, you can use subsequent revisions.
 - CMM, ATA Number 23-24-11 (Publication Number D201601000001), Revision 1, RESCU 406AFN2 Emergency Locator Transmitter System.
- (3) Federal Aviation Administration (FAA) Issue Paper: Docket No. FAA-2015-4279; Special Conditions No. 25-612-SC.
- (4) European Aviation Safety Agency (EASA) Certification Review Item (CRI) Proposed Special Condition on 'Non-rechargeable Lithium Battery Installations'.

E. Summary

- (1) This service bulletin is issued to notify customers that Honeywell will discontinue production of the RESCU 406AFN ELT. RESCU 406AFN part numbers will be removed from the Honeywell parts catalog per the schedule in [Paragraph F](#).
- (2) Honeywell has developed and certified the RESCU 406AFN2 ELT, a new and improved automatic-fixed type ELT which is backward compatible to the existing RESCU 406AF/AFN ELT. The new 406AFN2 ELT incorporates the transmission of global positioning system (GPS) location interface and also fully addresses the new FAA requirements concerning non-rechargeable lithium batteries.
- (3) Honeywell will be taking steps to proactively work with customers to replace existing 406AF/AFN ELTs with the new 406AFN2 ELTs under a trade-in program.

F. Next Steps

- (1) Honeywell will do as follows:
 - Announce details of the trade-in program for existing RESCU 406AF/AFN ELTs by August 31, 2017.
 - Discontinue production of RESCU 406AFN ELTs by June 30, 2019. Honeywell will not accept orders for RESCU 406AFN ELTs after December 31, 2018.
 - Discontinue RESCU 406AF/AFN battery spares sales and replacement service on June 30, 2019 for all aircraft installations with a certified RESCU 406AFN2 replacement option available. For aircraft installations pending RESCU 406AFN2 certification, Honeywell will continue to provide RESCU 406AF/AFN spare battery replacements for a limited time until STCs become available.
 - Discontinue non-battery-related RESCU 406AF/AFN repair and overhaul services (R&O) by both Honeywell and Honeywell-authorized third-party repair centers no later than December 31, 2021.

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- Issue SB 1152682-23-28 to modify the expiration date of fielded batteries to no later than December 31, 2019. This is a Category 2 "Recommended" service bulletin, to align the end of battery life with the end of R&O support. Honeywell will only implement this service bulletin in its repair centers with prior operator approval. Operators that do not implement the service bulletin do so with the understanding that Honeywell will not provide R&O support beyond 2021 for the unit or battery, regardless of the marked battery expiration date.
- Operators can contact Honeywell and/or aircraft OEMs to substitute the RESCU 406AFN2 for the RESCU 406AFN for new aircraft delivery in accordance with the RESCU 406AFN2 certification plan on Boeing and Airbus forward fit platforms.
- Operators can contact Honeywell for a Supplemental Type Certificate (STC) retrofit package to replace the RESCU 406AF/AFN with the new RESCU 406AFN2.

G. Transition Plan

- (1) RESCU 406AFN2: STC retrofit/trade-in available for operators anticipated starting October, 2017.
- (2) RESCU 406AFN2: Currently on Boeing forward fit B787s and anticipated to be available on B737NG/MAX in July 2017 and B777 in Q2 2019.
- (3) RESCU 406AFN2: Projected for Airbus forward fit in Q2 2019.

H. Description

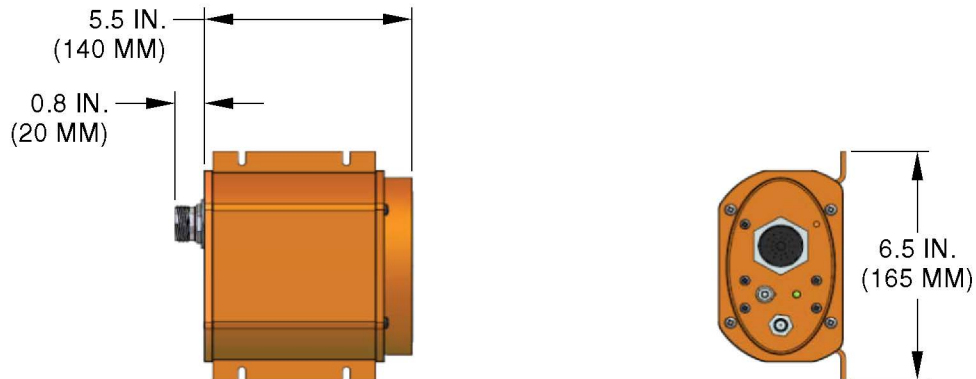
- (1) The new RESCU 406AFN2 is available under three different part numbers:
 - PN 51090130-2, RESCU 406AFN2, single axis G-switch.
 - PN 51090152-2, RESCU 406AFN2, six axis G-switch.
 - PN 51090414-1, RESCU 406AFN2, single axis G-switch plus adaptor plate.
- (2) The new RESCU 406AFN2 has the following key characteristics:
 - (a) Certified to meet new FAA requirements for non-rechargeable lithium batteries.
 - (b) Integrated Aeronautical Radio, Inc. (ARINC) GPS interface for location messages.
 - 1 Immediate transmission/detection of ELT location, no delay from measure/compute location by doppler frequency shift.
 - 2 ELT location accuracy (100 m), with high resolution location transmission.
 - (c) Backward compatible to RESCU 406AF/AFN ELTs.
 - (d) Transmits 121.5 MHz and 406 MHz emergency signals (243 MHz signal is no longer needed).
 - (e) Self-test validate/fault isolate, special coded 406 MHz transmission for no interference with search/rescue satellite network.
 - (f) Greater than 40 percent weight/size reduction compared to RESCU 406AF/AFN ELT, smaller battery size with less energy to meet new FAA requirements for non-rechargeable lithium batteries.

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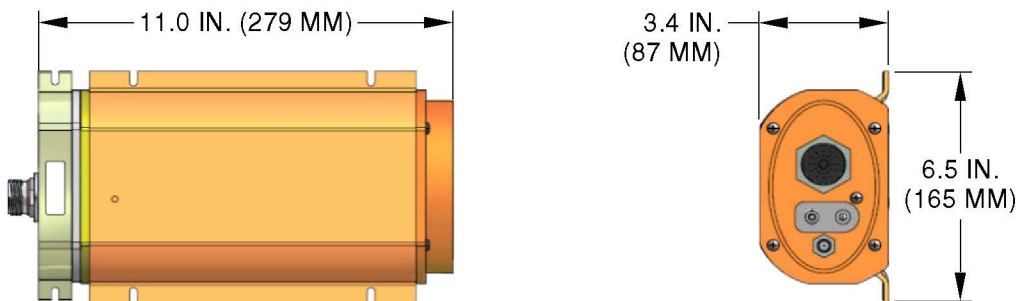
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- (g) Weight/size: 3.00 pounds (1.36 kg), 6.1 by 6.5 by 3.5 inches (155 by 165 by 89 mm).
- (h) Weight/size with adaptor plate: 4.4 pounds (2.00 kg), 10.6 by 6.5 by 3.5 inches (269 by 165 by 89 mm).



**RESCU 406AFN2 TRANSMITTER
(PN 51090130-2 OR PN 51090152-2)**



**RESCU 406AF RESCU 406AFN
WITH AIM/MAIN**

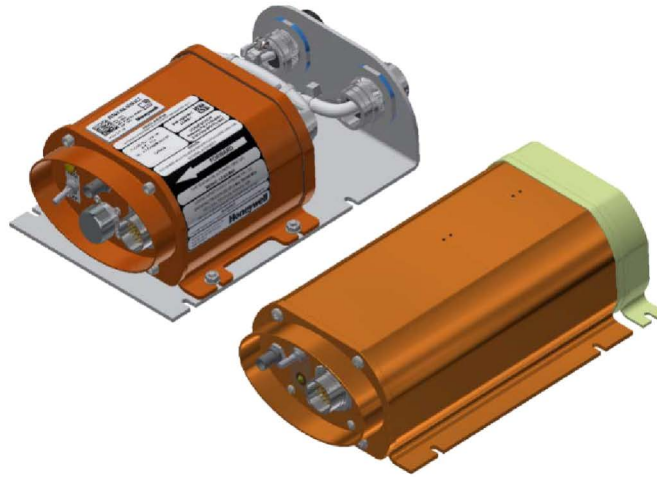
ICN-07217-0000636965-001-01

Figure 1. (Sheet 1 of 1) Comparison of RESCU 406AFN2, PN 51090130-2 and PN 51090152-2, with RESCU406AF/AFN

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Figure 2. (Sheet 1 of 1) Comparison of RESCU 406AFN2, PN 51090414-1, with RESCU 406AF/AFN

- (3) Interfaces to:
- AIM2: PN 51090136-1. Programming aircraft identification module.
 - Honeywell remote control panels/remote switch (all configurations).
 - Honeywell audible alarm.
 - Existing aircraft fuselage antenna.
 - Aircraft annunciation system.
 - ARINC/GPS.
 - Dual in-line package (DIP) switch programming module.
 - Honeywell beacon message programmer (BMP) programming tool.
- (4) Approvals:
- FAA TSO-C126a (ELT), TSO-C142a (battery).
 - COSPAS-SARSAT.

I. Contact Information

- (1) For pricing or commercial requests regarding the replacement configurations, please contact Honeywell customer support operations toll free at:
- Honeywell
Aerospace Contact Team
Telephone: 800-601-3099 (Toll Free U.S.A./Canada)
Telephone: 602-365-3099 (International Direct)
- (2) The Honeywell Aerospace Technical Support (ATS) team can be contacted for additional information on this service information letter.
- Honeywell Aerospace Technical Support
Telephone: 855-808-6500 (Toll Free U.S.A./Canada)
Telephone: 602-365-6500 (International Direct)
Option 1 for Avionics or Option 2 for Mechanical.

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E-mail: AeroTechSupport@honeywell.com

J. Summary

This revision is a FULL replacement. This revision includes the changes that follow:

- Changed the 3rd and 5th bullet point in [Paragraph F.](#), Step (1), to show information for batteries in service.
- Changed the content and format to agree with Honeywell processes in effect at the time of the release of this revision.

K. Revision History

This service information letter has had two revision(s) as shown in [Table 3](#).

Table 3. Revision History

Revision Number	Revision Date
0	20 Jun 2017
1	19 Dec 2018
2	2 Oct 2019

Export Control

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ECCN: 7E994.