

Honeywell International Inc.
Commercial Electronic Systems
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Glendale, AZ 85308-3912
U.S.A.
(CAGE 55939)

Service Bulletin

**COMMUNICATIONS — SRZ-85X INTEGRATED RADIO SYSTEM —
RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit (COM Unit) —
MOD AT to RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit
(COM Unit), Part No. 7510700-763, -765, -813, -815, -825, -863, -875;
Remove and Modify XS-852E/F Mode S Transponder to Make Sure it Does
Not Go Into Standby When the Air Traffic Control (ATC) Code is Changed**

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7510700-23-0047

Page 1 of 13

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

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Transmittal Information

Honeywell Pub. No. A21-3851-005

Summary

NOTE: The financial responsibility for this Service Bulletin is given below. Refer to Paragraph 2.A. and Paragraph 2.B. for more data.

This modification is done at a Honeywell Service Center for no cost to customers on file for 60 months after the initial release of this Service Bulletin.

This is the initial release of Service Bulletin ATA No. 7510700-23-0047 (Pub. No. A21-3851-005).

Revision History

This Service Bulletin, ATA No. 7510700-23-0047 (Pub. No. A21-3851-005), has no revisions as shown in Table 1.

Table 1. Service Bulletin Revisions

Revision	Date of Release
Initial Release	29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

1. Planning Information

A. Effectivity

This Service Bulletin, ATA No. 7510700-23-0047 (Pub. No. A21-3851-005), is applicable to the RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit (COM Unit), Part No. 7510700-763, -765, -813, -815, -825, -863, -875, without MOD AT installed.

B. Concurrent Requirements

No other modification to the COM Unit must be done before the modification given in this Service Bulletin.

ATA No. 7517400-23-6015 (Pub. No. A24-3834-022), Service Bulletin (SB), Revision 0, which installs MOD V in the XS-852E/F Mode S Transponder must be done before or at the same time as the modification given in this Service Bulletin.

C. Reason

If the flight crew take excessive time (more than approximately ten seconds), the XS-852E/F Mode S Transponder can go into standby. This can possibly not be seen by the flight crew.

D. Description

A summary of the work necessary to do this modification is given below.

- The COM Unit is disassembled and the XS-852E/F Mode S Transponder is removed.
- MOD V is installed in the XS-852E/F Mode S Transponder. This is done with Service Bulletin (SB) ATA No. 7517400-23-6015 (Pub. No. A24-3834-022), Revision 0. It is permissible to replace the XS-852E/F Mode S Transponder with one that has had MOD V installed.
- The XS-852E/F Mode S Transponder is installed in the COM Unit and it is assembled.
- The modification is identified on the COM Unit MOD plate.
- A test is done on the COM Unit.

E. Compliance

It is recommended that this modification be done as each COM Unit is sent back to the shop for an inspection, a test, or a repair.

F. Approval

This Service Bulletin includes approved modification instructions from the manufacturer. The configuration created by this modification is approved by the applicable regulatory agency.

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

G. Manpower

When done at the same time as other repairs and tests, this modification can be completed in the approximate times that follow:

- 1.0 hour for labor to do the modification of the COM Unit
- 0.5 more hour for labor to do a test of the COM Unit

NOTE: Sixty months after the initial release date of this Service Bulletin, more costs for the labor necessary to prepare, package, and inspect (PPI) the COM Unit can be applicable.

H. Weight and Balance

Not changed.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not applicable.

K. References

NOTE: To find, see, and download Honeywell Technical Publications, an electronic distribution system is available at <https://pubs.cas.honeywell.com/>.

The documents that follow are necessary to complete this modification. Unless specified differently, you can use subsequent revisions.

- ATA No. 23-81-01 (Pub. No. A09-3800-015), Component Maintenance Manual (CMM), Revision 9
- Doc. No. IT7510700, Integrated Test Specification (IT), Revision BJ
- ATA No. 7517400-23-6015 (Pub. No. A24-3834-022), Service Bulletin (SB), Revision 0, which installs MOD V in the XS-852E/F Mode S Transponder.

L. Other Publications Affected

ATA No. 23-81-01 (Pub. No. A09-3800-015), CMM, Revision 9 will be revised as a result of this Service Bulletin.

This Service Bulletin has no effect on the airworthiness analysis.

This Service Bulletin has no effect on the test procedure.

M. Interchangeability or Intermixability of Parts

Not applicable.

N. Service Bulletin License Agreement

Appendix A of this Service Bulletin shows the Service Bulletin License Agreement.

NOTE: If the modification described in this Service Bulletin is done at a location other than a Honeywell Service Center, complete and return a copy of the Customer Support Service Report found in Appendix B of this Service Bulletin.

7510700-23-0047

Page 4 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

2. Material Information

A. Material — Price and Availability

If the modification given in this Service Bulletin is done at a location other than a Honeywell Service Center, complete the Customer Support Service Report. The report is found in Appendix B of this Service Bulletin.

No operator-purchased material is necessary to do this Service Bulletin.

Refer to the data that follows for the necessary documentation, applicable material prices, available parts, and supply times.

Honeywell
Aerospace Electronic Systems
Attn: Customer Response Center
P.O. Box 21111
Phoenix, AZ 85036-1111
U.S.A.

Phone:	1-877-484-2979
Fax:	1-602-822-7272
International Direct Dial Phone:	1-602-436-0272

This modification is done at a Honeywell Service Center or Honeywell-authorized repair location for no cost to customers on file for 60 months after the initial release date of this Service Bulletin. The price for an order that is received after this time is given at the time of the order.

B. Industry Support Information

If this modification is done at a shop location less than 60 months after the initial release date of this Service Bulletin, a maximum of 1.0 hour for labor will be reimbursed by Honeywell. Reimbursement will not be more than Honeywell's applicable reimbursement labor rate or as specified in the agreement or contract.

If this modification is done at a shop location at the same time as other inspection, test, or repair work, no labor hours to do a test of the COM Unit will be reimbursed by Honeywell.

If this modification is done at a shop location less than 60 months after the initial release date of this Service Bulletin and is the only work done on the COM Unit, a maximum of 0.5 more hour for labor to do a test of the COM Unit will be reimbursed by Honeywell. Reimbursement will not be more than Honeywell's applicable reimbursement labor rate or as specified in the agreement or contract.

To get reimbursed after the modification of each COM Unit is completed, send a labor claim to Honeywell before 60 days after the approved work was completed. Reimbursement will not be more than Honeywell's applicable reimbursement labor rate or as specified in the agreement or contract.

7510700-23-0047

Page 5 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Refer to the data that follows to send the warranty labor claims after this Service Bulletin is completed:

Honeywell
Aerospace Electronic Systems
Attn: Warranty Administration
P.O. Box 21111
Phoenix, AZ 85036-1111
U.S.A.

Fax: 1-602-436-1500

C. Material Necessary for Each Component

If the modification given in this Service Bulletin is done at a location other than a Honeywell Service Center, complete the Customer Support Service Report. The report is found in Appendix B of this Service Bulletin.

The sundry item specified in Table 2 is necessary to do this Service Bulletin. The item is commercially available and should not be ordered as part of this Service Bulletin.

WARNING: BEFORE YOU USE A MATERIAL, REFER TO THE MANUFACTURERS' MATERIAL SAFETY DATA SHEETS. SOME MATERIALS CAN BE DANGEROUS.

CAUTION: DO NOT USE MATERIALS THAT ARE NOT EQUIVALENT TO MATERIALS SPECIFIED BY HONEYWELL. MATERIALS THAT ARE NOT EQUIVALENT CAN CAUSE DAMAGE TO THE EQUIPMENT AND CAN MAKE THE WARRANTY NOT APPLICABLE.

NOTE: Equivalent alternatives are permitted for the materials specified in Table 2.

NOTE: A Honeywell Material Number (HMN) is given before the identification of materials. The Supplier CAGE code is given in parentheses () after the Supplier location.

Table 2. Operator-Supplied Material

Part/Specification Number	Qty	Keyword
HMN 9519478	A/R	Ink, black marking, epoxy base resin and amine-type catalyst (FED-STD-595 color 17038) — No. 50-700-R black CAT-L-INK with catalyst No. 20 (HMN 95P4878), Enthone Inc, Irvine, CA (CAGE 1RXP5)

D. Material Necessary for Each Spare

Same as Paragraph 2.A. and Paragraph 2.C.

E. Reidentified Parts

Not applicable.

F. Tooling — Price and Availability

The equipment that is necessary to do this modification is specified in the documents given in Paragraph 1.K. of this Service Bulletin.

7510700-23-0047

Page 6 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

3. Accomplishment Instructions

A. General Information

CAUTION: THE COM UNIT CONTAINS ESDS ITEMS. USE INDUSTRY APPROVED PRECAUTIONS.

NOTE: Keep all hardware for use in assembly. Refer to the DISASSEMBLY, REPAIR, and ASSEMBLY sections of the CMM, ATA No. 23-81-01 (Pub. No. A09-3800-015) Revision 9, for procedures and precautions, and the ILLUSTRATED PARTS LIST (IPL) for component identification and location. Use all CAUTIONS and WARNINGS.

B. Disassembly

- (1) Disassemble the COM Unit (Part No. 7510700-763, -765, -813, -815, -825, -863, -875) and remove the XS-852E/F Mode S Transponder. Refer to the DISASSEMBLY section of the CMM, ATA No. 23-81-01 (Pub. No. A09-3800-015), Revision 9 for instructions.

C. Modification

CAUTION: MAKE SURE THE XS-852E/F MODE S TRANSPONDER INTEGRATED TEST SPECIFICATION IS DONE CORRECTLY. THE TYPE SETTING MUST BE SET TO TYPE 3 FOR ELEMENTARY SURVEILLANCE. SINCE THE TRANSPONDER TYPE IS NOT CHANGED WHEN THE NEW SOFTWARE IS INSTALLED, THE INTEGRATED TEST SPECIFICATION MUST BE DONE TO SET THE TRANSPONDER TYPE TO 3.

- (1) Install MOD V in the XS-852E/F Mode S Transponder, Part No. 7517400-911 or -912. Refer to Service Bulletin ATA No. 7517400-23-6015 (Pub. No. A24-3834-022, Revision 0 for instructions. It is permissible to replace the XS-852E/F Mode S Transponder with one that has had MOD V installed.

D. Assembly

- (1) Assemble the COM Unit (Part No. 7510700-763, -765, -813, -815, -825, -863, -875). Refer to the ASSEMBLY section of the CMM, ATA No. 23-81-01 (Pub. No. A09-3800-015), Revision 9 for instructions.

E. Modification Status Marking

- (1) Put black ink (HMN 9519478) on the letter box AT in the MOD status area of the COM Unit MOD plate. Make sure the letters AT cannot be seen.

F. Testing

- (1) Do a test of the COM Unit (Part No. 7510700-763, -765, -813, -815, -825, -863, -875). Refer to the Integrated Test Specification (IT), Doc. No. IT7510700, Revision BJ for instructions.

G. Verification

- (1) If a location other than a Honeywell Service Center did the modification given in this Service Bulletin:
Make sure that the data sent to Honeywell is accurate on the Customer Support Service Report (Appendix B) of this Service Bulletin.
Make sure that all serial numbers are accurate.

7510700-23-0047

Page 7 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Blank Page

7510700-23-0047

Page 8 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Appendix A Honeywell Service Bulletin License Agreement

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9. CONTROLLING LAW This agreement constitutes the entire agreement between the parties with respect to the use of this software. This agreement shall be governed and construed in accordance with the laws of the State of New York.

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Figure A-0 (Sheet 1 of 1).

7510700-23-0047

Page 9 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Blank Page

7510700-23-0047

Page 10 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Appendix B Customer Support Service Report

LRU/SRU Model/Nomenclature:	RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit
★ LRU/SRU Part No. (Before modification):	7510700 -
★ LRU/SRU Part No. (After modification):	7510700 -
★ LRU/SRU Serial Number:	
★ Hardware/Software MOD Level (Before modification):	
★ Hardware/Software MOD Level (After modification):	
Aircraft Type:	
★ End User	
Company Name:	
Company Address:	
★ Service Provider	
Person to Contact:	
Company Name:	
Company Address:	
Company Phone No.:	
Date of modification:	

Honeywell Internal Use Only	
SAR No.:	QDS Customer No.:

Mail or Fax
Completed Form to:

Honeywell
Aerospace Electronic Systems
Attn: Order Management
P.O. Box 21111
Phoenix, AZ 85036-1111
FAX: 1-602-822-7272

★ Required Information Fields

7510700-23-0047

Page 11 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Blank Page

7510700-23-0047

Page 12 of 13
29 June 2005

Honeywell

SERVICE BULLETIN

RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit / Base Part No. 7510700

Appendix C Acronyms and Abbreviations

The acronyms and abbreviations used by Honeywell are identified in Table C-1:

Table C-1. List of Acronyms and Abbreviations

Term	Term Definition
ATA	Air Transport Association
ATC	air traffic control
Attn:	attention
A/R	as required
CAGE	commercial and government entity
CMM	component maintenance manual
COM Unit	RCZ-833J/K, RCZ-851J/K, RCZ-854J Communication Unit
Doc.	document
ESDS	electrostatic discharge sensitive
ECCN	export code classification number
HMN	Honeywell material number
Inc.	incorporated
IPL	illustrated parts list
IT	integrated test specification
LRU	line replaceable unit
MOD	modification
NLR	no license required
No.	number
PPI	prepare, package, and inspect
Pub.	publication
P.O.	post office
Qty	quantity
SB	service bulletin
SRU	shop replaceable unit
U.S.A.	United States of America
USC	United States Code