

Honeywell International Inc.  
Commercial Electronic Systems  
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U.S.A.  
(CAGE 55939)

## Service Bulletin

**COMMUNICATIONS — SRZ-85X INTEGRATED RADIO SYSTEM — RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J Communication Unit (COM Unit) — Conversion from RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J Communication Unit (COM Unit), Part No. 7510700-725, -726, -762, -763, -765, -766, -802, -806, -813, -815, -825, -826, -862, -863, -866, -875 to RCZ-833J/K, RCZ-851J/K, RCZ-854J, Part No. 7510700-563, -613, -615, -624, -625, -663, -665, -675 (MOD AT); Remove and Change XS-852/A/E/F Mode S Transponder to Add the Traffic Alert and Collision Avoidance System (TCAS) Change 7 Enhanced Surveillance Function**

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## SERVICE BULLETIN

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

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### Transmittal Information

Honeywell Pub. No. A24-3851-002

### 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 Service Bulletin is done at a Honeywell Service Center for the list price given in Appendix D for each COM Unit.

This is the initial release of Service Bulletin ATA No. 7510700-23-6046 (Pub. No. A24-3851-002).

**NOTE:** The acronyms and abbreviations used in this Service Bulletin are identified in Appendix C.

### Revision History

This Service Bulletin, ATA No. 7510700-23-6046 (Pub. No. A24-3851-002), has no revisions as shown in Table 1.

**Table 1. Service Bulletin Revisions**

Revision	Date of Release
Initial Release	27 June 2005

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## SERVICE BULLETIN

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

### 1. Planning Information

#### A. Effectivity

**CAUTION: DO NOT DO THIS CONVERSION ON ANY RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J COMMUNICATION UNIT (COM UNIT), PART NO. 7510700 -725, -726, -762, -763, -765, -766, -802, -806, -813, -815, -825, -826, -862, -863, -866, -875 THAT HAS A MODIFICATION HIGHER THAN MOD AT. REFER TO YOUR LOCAL HONEYWELL FIELD SERVICE ENGINEER FOR INSTRUCTIONS ABOUT THIS CONVERSION WHEN A MODIFICATION HIGHER THAN MOD AT IS INSTALLED.**

This Service Bulletin, ATA No. 7510700-23-6046 (Pub. No. A24-3851-002), is applicable to the RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J Communication Unit (COM Unit), Part No. 7510700-725, -726, -762, -763, -765, -766, -802, -806, -813, -815, -825, -826, -862, -863, -866, -875.

#### B. Concurrent Requirements

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

ATA No. 7517400-23-6014 (Pub. No. A24-3834-021), Service Bulletin (SB), Revision 0, which converts the XS-852/A/E/F Mode S Transponder, Part No. 7517400-901, -902, -911, -912 to the XS-852E/F Mode S Transponder, Part No. 7517400-921, -922 (MOD V) must be done before or at the same time as the conversions given in this Service Bulletin.

#### C. Reason

This conversion adds the traffic alert and collision avoidance system (TCAS) Change 7 enhanced surveillance function to the COM Unit.

Change 7 provides the communication between onboard aircraft TCAS and transponder (XS-852E/F). Change 7 capability uses an additional protocol known as TCAS/Transponder ground-initiated Comm-B data (TGD/XGD), and allows multiple segment messages to be passed between the TCAS and transponder. Change 7 capability is a European Airspace requirement for 2004. The definitions of the two surveillance modes are:

- Elementary Surveillance – Enables the ground acquisition of derived aircraft parameters for increased efficiency by ground controllers in tactically separating aircraft.
- Enhanced Surveillance – Enables the ground acquisition of actual aircraft parameters for increased efficiency by ground controllers in tactically separating aircraft.

**NOTE:** Refer to your local Honeywell Field Service Engineer for data about the effect of this conversion on field maintenance.

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

### D. Description

**NOTE:** Table D-1 identifies the only conversions permitted by this Service Bulletin.

A summary of the work necessary to do these conversions is given below.

- The COM Unit is disassembled and the XS-852/A/E/F Mode S Transponder is removed.
- The XS-852/A/E/F Mode S Transponder is converted to add the TCAS Change 7 enhanced surveillance function. This is done with Service Bulletin (SB) ATA No. 7517400-23-6014 (Pub. No. A24-3834-021, Revision 0).
- The XS-852E/F Mode S Transponder is installed in the COM Unit and it is assembled.
- The identification plate, MOD plate, and product signature plate are changed.
- A test is done on the COM Unit.

### E. Compliance

This conversion is optional. The operator can make the decision if this conversion is necessary.

### F. Approval

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

### G. Manpower

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

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

### H. Weight and Balance

Not changed.

### I. Electrical Load Data

Not changed.

### J. Software Accomplishment Summary

Not applicable.

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

### 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 conversion. 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. 7517400-23-6014 (Pub. No. A24-3834-021), Service Bulletin (SB), Revision 0, which changes XS-852/A/E/F Mode S Transponder, Part No. 7517400-901, -902, -911, -912 to XS-852E/F Mode S Transponder, Part No. 7517400-921, -922 (MOD V).

### 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 conversion 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.

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## SERVICE BULLETIN

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

## 2. Material Information

### A. Material — Price and Availability

If the conversion 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. Honeywell will not send the parts unless you complete the report and send a copy to Honeywell.

The items specified in Table 2 are necessary to do this Service Bulletin.

**Table 2. Operator-Purchased Material**

New Part Number	Keyword	Old Part Number	Qty	List Price	Instructions/Disposition
7000037-277	Product Signature Plate	7000037-209 or 7000037-264	A/R	N/A	1, 2, 3
7000037-278	Product Signature Plate	7000037-209 or 7000037-266	A/R	N/A	1, 2, 3
7000037-279	Product Signature Plate	7000037-209 or 7000037-265	A/R	N/A	1, 2, 3
7000037-280	Product Signature Plate	7000037-209 or 7000037-267	A/R	N/A	1, 2, 3
7000037-281	Product Signature Plate	7000037-185 or 7000037-268	A/R	N/A	1, 2, 3
7000037-282	Product Signature Plate	7000037-185 or 7000037-269	A/R	N/A	1, 2, 3
7000037-283	Product Signature Plate	7000037-202 or 7000037-270	A/R	N/A	1, 2, 3
7000037-284	Product Signature Plate	7000037-202 or 7000037-271	A/R	N/A	1, 2, 3
7500425-43	Identification plate	7500425-33 or 7500425-43	A/R	N/A	1, 2, 3, 4
7500425-44	Identification plate	7500425-36 or 7500425-44	A/R	N/A	1, 2, 3, 4
7500425-45	Identification plate	7500425-16 or 7500425-45	A/R	N/A	1, 2, 3, 4
7500425-46	Identification plate	7500425-19 or 7500425-46	A/R	N/A	1, 2, 3, 4
7500425-47	Identification plate	7500425-24 or 7500425-25 or 7500425-47	A/R	N/A	1, 2, 3, 4
7500426-2	MOD Plate	7500426-2 7500425-	1	N/A	1, 2, 4

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## SERVICE BULLETIN

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

### INSTRUCTIONS/DISPOSITION:

- (1) Refer to the Honeywell Contacts given below for the applicable available parts, supply times, and minimum order quantities.
- (2) The customer or local regulatory authority can make decisions about what to do with the used parts.
- (3) The need for this part is identified by the post-conversion part number of the COM Unit. Refer to Table 4. The quantity is one.
- (4) Honeywell supplies blank plates only to the Honeywell FAA 145 Service Centers. The dash number and serial number of the COM Unit must be given when you order this part.

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

**NOTE:** Registered Global Material Services (GMS) users can make an order for the material at <http://www.avionicservices.com/login>. Click on Customer Applications.

This conversion is done at a Honeywell Service Center or Honeywell-authorized repair location for the list price given in Table D-1 for each COM Unit. This price is applicable during the catalog year (from January 1 to midnight December 31) that this Service Bulletin is released or revised. The price for an order that is received after this time is given at the time of the order. The price includes material, labor, and all shop costs to do this conversion. The price does not include repairs that are not related but necessary to put the COM Unit in a condition of airworthiness.

### **B. Industry Support Information**

Honeywell will not reimburse the cost of labor hours used to do this conversion. The customer will receive an applicable invoice for the conversion of each COM Unit converted at a Honeywell Service Center or Honeywell-authorized repair location.

### **C. Material Necessary for Each Component**

If the conversion 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. Honeywell will not send the parts unless you complete the report and send a copy to Honeywell.

The sundry item specified in Table 3 is necessary to do this Service Bulletin. The item is commercially available and should not be ordered as part of this Service Bulletin.

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

**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 3.

**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 3. 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 conversion is specified in the documents given in Paragraph 1.K. of this Service Bulletin.



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## SERVICE BULLETIN

RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J 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. 7510700-725, -726, -762, -763, -765, -766, -802, -806, -813, -815, -825, -826, -862, -863, -866, -875) and remove the XS-852/A/E/F Mode S Transponder. Refer to the instructions in the DISASSEMBLY section of the CMM, ATA No. 23-81-01 (Pub. No. A09-3800-015), Revision 9.

#### 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 4 FOR ENHANCED 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 4.**

- (1) Change the XS-852/A/E/F Mode S Transponder to the applicable part number given in Table 4. Use the Service Bulletin, ATA No. 7517400-23-6014 (Pub. No. A24-3834-021), Revision 0.

**Table 4. COM Unit Configuration Data**

COM Unit Post-Conversion Part Number	COM Unit Post-Conversion Model No.	XS-852E/F Mode S Transponder Part Number	Identification Plate Part Number	Product Signature Plate Part No.
7510700-563	RCZ-833J	7514700-921	7500425-43	7000037-277
7510700-613	RCZ-851J	7514700-921	7500425-45	7000037-281
7510700-615	RCZ-851K	7514700-922	7500425-46	7000037-282
7510700-624	RCZ-854J	7514700-922	7500425-47	7000037-283
7510700-625	RCZ-854J	7514700-922	7500425-47	7000037-284
7510700-663	RCZ-833J	7514700-921	7500425-43	7000037-279
7510700-665	RCZ-833K	7514700-922	7500425-44	7000037-278
7510700-675	RCZ-833K	7514700-922	7500425-44	7000037-280

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### D. Assembly

- (1) Assemble the RCZ-833J/K, RCZ-851J/K, RCZ-854J COM Unit. 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) Replace the COM Unit identification plate.
  - (a) Get the applicable new identification plate identified in Table 4.
  - (b) Make sure the COM Unit post-conversion dash number and serial number are correct on the new identification plate. The post-conversion serial number must be the same as the pre-conversion serial number. Add data to the new identification plate if necessary.
  - (c) Remove and discard the identification plate on the COM Unit.
  - (d) Install the new identification plate in approximately the same location.
- (2) Replace the COM Unit MOD plate.
  - (a) Get a new MOD plate, Part No. 7500426-2.
  - (b) Make sure the COM Unit post-conversion dash number and serial number are correct on the new MOD plate. The post-conversion serial number must be the same as the pre-conversion serial number. Add data to the new MOD plate if necessary.
  - (c) Remove but do not discard the MOD plate on the COM Unit.
  - (d) Install the new MOD plate in approximately the same location.
  - (e) Use black marking ink, HMN 9519478, mark out MOD AT and identify all the modifications that are installed in the COM Unit. But, do not identify MOD AC if the post-conversion COM Unit is Part No. 7510700-563, -613, or 663. Refer to the MOD plate that was removed in Paragraph 3.E.(2).(c).
  - (f) Discard the MOD plate that was removed in Paragraph 3.E.(2).(c).
- (3) Replace the COM Unit product signature plate.
  - (a) Get the applicable new product signature plate identified in Table 4.
  - (b) Remove and discard the product signature plate on the COM Unit.
  - (c) Install the new product signature plate in approximately the same location.

### F. Testing

- (1) Do a test of the COM Unit (Part No. 7510700-563, -613, -615, -624, -625, -663, -665, -675). 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 conversion 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.

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### Appendix A Honeywell Service Bulletin License Agreement

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Figure A-0 (Sheet 1 of 1).

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### Appendix B Customer Support Service Report

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

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
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★ Required Information Fields

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### 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
Attn:	attention
ATA	Air Transport Association
A/R	as required
CAGE	Commercial and Government Entity
CMM	component maintenance manual
COM Unit	RCZ-833B/E/J/K, RCZ-851B/E/J/K, RCZ-854E/J Communication Unit
Doc.	document
ESDS	electrostatic discharge sensitive
ECCN	Export Code Classification Number
GMS	Global Material Services
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
N/A	not applicable
Pub.	publication
P.O.	post office
Qty	quantity
SB	service bulletin
SRU	shop replaceable unit
TCAS	traffic alert and collision avoidance system
TGD	TCAS to transponder data transfer protocol
U.S.A.	United States of America

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**Table C-1. List of Acronyms and Abbreviations (Cont)**

<b>Term</b>	<b>Term Definition</b>
USC	United States Code
XGD	transponder to TCAS data transfer protocol



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### Appendix D Conversion/List Price Data

Refer to Table D-1 for the conversion list price data. Refer to Paragraph 2.A. for data on the availability of the list price.

**NOTE:** Only the conversions given in Table D-1 are permitted by this Service Bulletin.

**Table D-1. Conversion List/Price Data**

<b>Pre-Conversion Part No.</b>	<b>Post-conversion Part No.</b>	<b>List Price</b>
7510700-725	7510700-624	\$5,000.00
7510700-726	7510700-624	\$10,000.00
7510700-762	7510700-563	\$10,000.00
7510700-763	7510700-563	\$5,000.00
7510700-765	7510700-665	\$5,000.00
7510700-766	7510700-665	\$10,000.00
7510700-802	7510700-613	\$10,000.00
7510700-806	7510700-615	\$10,000.00
7510700-813	7510700-613	\$5,000.00
7510700-815	7510700-615	\$5,000.00
7510700-825	7510700-625	\$5,000.00
7510700-826	7510700-625	\$10,000.00
7510700-862	7510700-663	\$10,000.00
7510700-863	7510700-663	\$5,000.00
7510700-866	7510700-675	\$10,000.00
7510700-875	7510700-675	\$5,000.00