

ICOM IC-A200 Aircraft Radio to 223 Series Adapter Panels

Table of Contents

1.0 General	3
2.0 Interconnect Cable assembly	3
3.0 223 Series Panels	3
3.1 TRA-223 Setup	3
3.2 TRA-223 Dip-Switch Settings	4
3.3 DSP-223 Setup	4
3.4 IP-223 Setup	5
3.5 ICOM IC-A200 Radio Setup	5

ICOM IC-A200 Aircraft Radio to 223 Series Adaptor Panels

1.0 General

This application note is intended to show how to assemble a cable and setup the hardware of different 223 series adaptor panels (TRA-223, DSP-223 and IP-223) to an ICOM IC-A200 series aircraft radio.

NOTE: This application note only supports control on a dedicated radio channel.

2.0 Interconnect Cable assembly

A cable assembly is required to connect the ICOM IC-A200 30-pin accessory connector to the various 223 Series adapter panels.

Use the following chart to manufacture this cable assy.

TABLE 1. Interconnect Cable Assembly

TRA-223 DB-25 Pin	DSP-223 DB-25 Pin	IP-223 DB-25 Pin	IC-A200 30-Pin	Signal
25	25	25	J	MIC+
24	24	24	H	RX+
12	12	12	7	RX-
14	14	14	9	PTT
7	7	7	6 & 8	GND

3.0 223 Series Panels

3.1 TRA-223 Setup

The TRA-223 requires the TO-23 option is installed to support a connection to the ICOM IC-A200.

REFERENCE: For more information, see the TRA-223 Technical Manual (P/N 803570). This document is available for download at www.telex.com/Downloads/.

3.2 TRA-223 Dip-Switch Settings

Use Table 2 to set the dip switches for the TRA-223.

TABLE 2. TRA-223 Dip Switch Settings

Switch	Setting	Signal
1	As appropriate	2-Wire = On 4-Wire = Off
2	As appropriate	4-Wire = On 2-Wire = Off
3	As appropriate	Full Duplex = On Half Duplex = Off
4	Off	Squelch
5	Off	Radio Rx Level Speaker = On High Impedance = Off
6	On	Radio Tx Level Low Level = On High Level = Off
7	On	Ground on PTT Relay Common
8	Off	Ground on Monitor Relay Common

3.3 DSP-223 Jumper Settings

To set the DSP-223 jumpers, do the following:

- Set to the **A position**:
 - J14, J15, J22, J23.
- Set to the **B position**:
 - J24, J25, J27, J12 and J13.
- Solder closer **JP2**.

NOTE: J19, J20 and J21 are for selecting 2- or 4-wire operation.

REFERENCE: For more information, see the DSP-223 Technical Manual (P/N 803274).
This document is available for download at www.telex.com/Downloads/.

3.4 IP-223 Setup

Set up the appropriate IP-223 lines for Local mode.

Using control and set the jumpers as follows.

TABLE 3.

Line 1	Jumper Setting	Line 2
J33, J34	B = 4-wire	J5, J6
J16, J21	B = Balanced	J19, J20
J14	Hanging on center pin = 10K Ohm	J24
J3, J9, J11	A = Single Ended	J25, J28, J29
J13	A = Low	J27
J7, J22	B = 600 Ohms	J10, J15
R377	Solder Bridge pads together	R381

3.5 ICOM IC-A200 Radio Setup

Set front panel volume control to mid-range.

No further configuration or radio programming is required.

Revision History		
Document Title: ICOM IC-A200 Aircraft Radio to 223 Series Adapter Panels		
Document Number: AN-DISPATCH-033		
Revision	Change Description	Date
A	Update brand, format and new document number.	15-NOV-2009

Suggestions or comments:

Contact technical support with suggestions or comments concerning this application note.

Technical Support:

Email: TelexDispatchtechsupport@us.bosch.com

Fax: 1-402-467-3279

Phone: 1-800-898-6723

Bosch Security Systems, Inc.
8601 East Cornhusker Highway
Lincoln Nebraska 68507

Phone: (800) 752-7560 Fax: (402) 467-3279

Email: Telexdispatch@us.bosch.com

Web: www.telex.com

Downloads: www.telex.com/Downloads/