1 Purpose

To provide assembly instructions for PCA PN# 20000003 (PCA,AIRCRAFT WIRELESS).

2 Scope

This work instruction is for internal use only, it shall not be provided to 3rd-party contract assemblers.

2.1 Definitions

None.

2.2 Records Retention

A record of the PCA serial number and manufacturing test results shall be entered in *Maestro*.

3 Responsibility and Authority

The Director, Manufacturing, has responsibility and authority for maintaining this work instruction. The assembler is responsible for correct assembly of devices according to this work instruction.

4 Procedure

4.1 Health and Safety Concerns

Safety glasses and shoes are recommended.

4.2 Required Equipment

Audio amplifier with speaker	Amplifier with speaker and calibrated gain control, and input cable terminated with a 3.5mm phone plug.

4.3 Assemble PCA

1 Log into *Maestro* and print a BOM (bill of materials).

2 Pick the product kit using the BOM.

    2.1 Report if there is no stock of the custom inductor PN 20000003-00A, (IND,AIRCRAFT WIRELESS,830UH) to the Production Planner.

3   Refer to the assembly drawing (and schematic if necessary) to populate and solder the parts on the BOM to the PCB.

> _Note: VC1 is mounted on the copper side of the PCB. All other components mount on the silk-screen side of the PCB._

4.4 Test Procedure

1   Attach a test antenna to the PCA at P2.

2   Attach the audio amplifier to the output jack J1.

3   Set the audio amplifier to 30dB gain.

4   Sweep the tuning capacitor VC1 slowly from one extreme to the other and listen to the audio amplifier speaker.

   4.1   If you can tune in at least 2 stations such that the program is understandable, affix a red self-adhesive dot to the bottom right corner of the back of the PCA and initial the dot.

   4.2   If you cannot tune in at least 2 stations, repair the circuit board.

5   Log into _Maestro_ and assign the next serial number available for PN 20000003 to the DUT) (device under test), write the serial number in the space provided on the back of the DUT, and enter that the DUT successfully passed the manufacturing test.

5 Related and Support Documentation

20000003_ASSY.pdf	Assembly drawing
20000003_SCH.pdf	Schematic

6 Revision History

Date	Name	Change Description
2013-01-02	Hank Baldwin	Creation
2013-01-04	Hank Baldwin	Move VC1 to copper side of PCB