JUPITER AVIONICS CORPORATION

wiJAC-Txx (JA66/JA67)

Wireless Intercom System with Transceiver Connection

Operating Manual

Rev. C

IMPORTANT:

Information in this manual is subject to change without notice.

To check the current revision status of this manual, visit the JAC website:
www.jupiteravionics.com

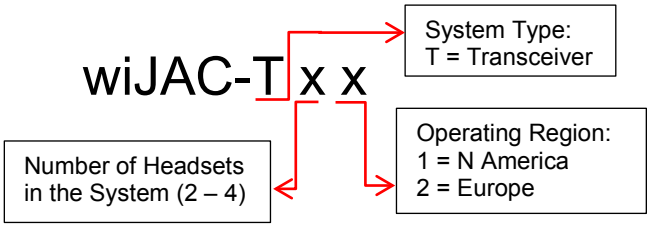
Record of Revisions			
Rev	**Date**	**Description**	**ECR**
A	May 2014	Initial release, serial number 1001 +	2914
B	Jun 2016	Add Freq and RF; change drawing.	3622
C	Jan 2017	Add 'Active Low'. Clarify Purging.	4380

Prepared:	Checked:	Approved:
MPB	JAC 01-25-17 SRM	JAC 01-26-17 KDV

Table of Contents

1 Introduction

This manual contains the operating instructions for the **wiJAC**-Txx Wireless Intercom System with Transceiver Connection. The diagram below describes the naming method for the different systems.



North America:

The **wiJAC**-Tx1 consists of one JA67-001 Transceiver Adapter, and up to four JA66-001 Headset Adapters.

RF output power is 21dBm (125mW peak)

Channel frequencies	23 =	1.921536 GHz
	24 =	1.923264 GHz
	25 =	1.924992 GHz
	26 =	1.926720 GHz
	27 =	1.928448 GHz

Europe:

The **wiJAC**-Tx2 consists of one JA67-001 Transceiver Adapter, and up to four JA66-001 Headset Adapters.

RF output power is 23 dBm (200 mW peak)

Channel frequencies	9 =	1.881792 GHz
	8 =	1.883520 GHz
	7 =	1.885248 GHz
	6 =	1.886976 GHz
	5 =	1.888704 GHz
	4 =	1.890432 GHz
	3 =	1.893888 GHz
	2 =	1.896616 GHz
	1 =	1.895616 GHz
	0 =	1.897344 GHz

Only paired units will operate together (see section 5)

System operating information is in section 6.4.

WARNING: **Where there is a potential risk of injury or death, no battery operated device should be relied upon as the sole method of communication.**

1.1 Unpacking

Unpack the **wiJAC**™ box carefully, and ensure that it contains the following:

- one Wireless Aircraft Transceiver Adapter, JAC P/N JA67-00x
- Two to four Wireless Aircraft Headset Adapters, JAC P/N JA66-00x
- one set of AAA rechargeable batteries for each unit
- one USB to Micro USB cable, JAC P/N CAB-USB-0003 for each unit.
- one **wiJAC**™ Quick Start Guide, JAC P/N DOC-GUID-WITXXU

1.2 Verify Operating Region

The **wiJAC**-Txx Wireless Intercom System operates using radio frequencies that are authorized by government regulatory agencies. Ensure the region in which you are operating the units matches the region marked on a label on the back of each unit.

2 JA66-00x Headset Adapter (JA66)

Note: The units are shown in grey for clarity

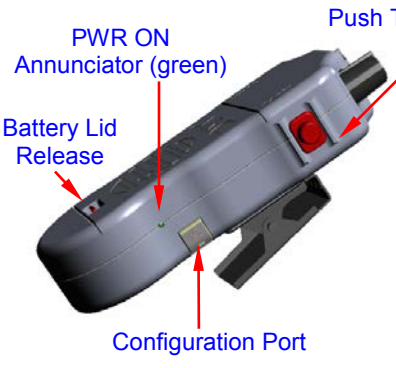


Fig 2-1, JA66 Right Side View

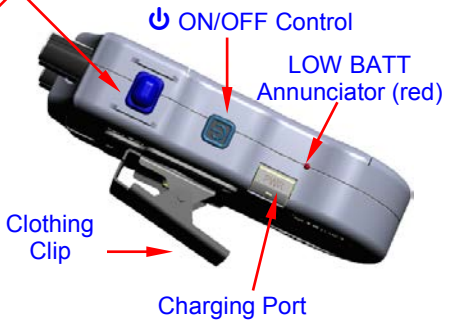


Fig 2-2, JA66 Left Side View

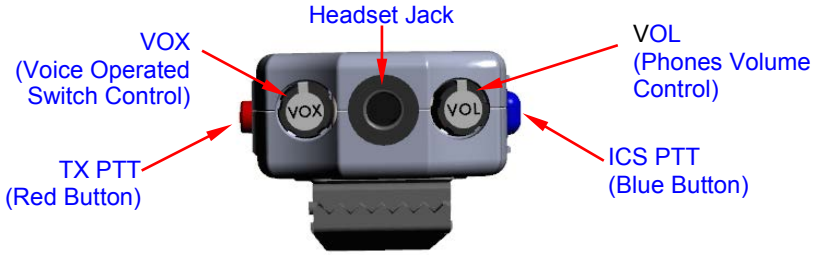


Fig 2-3, JA66 Top View

3 JA67-00x Transceiver Adapter (JA67)

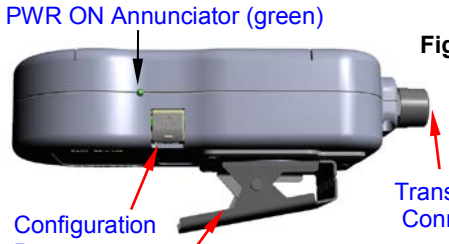


Fig 3-1, JA67 Right Side View

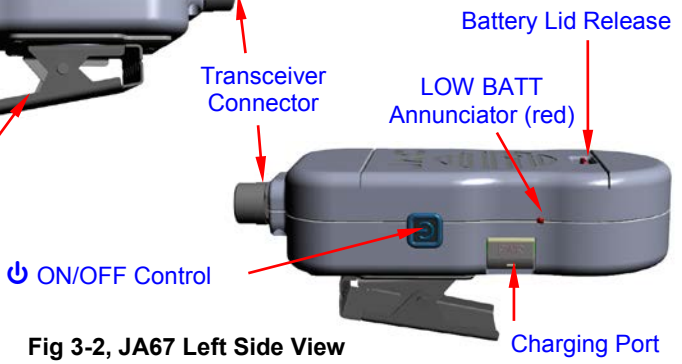


Fig 3-2, JA67 Left Side View

4 Controls, Annunciators and Connectors

4.1 ⏻ (ON/OFF) Button – Both units

The ON/OFF control is a push button switch marked with the ⏻ symbol and is located on the left side of the unit. To turn the unit on, press the ON/OFF button once. To turn the unit off, press and hold the ON/OFF button until the PWR ON and LOW BATT annunciators turn off (approximately three to five seconds).

4.2 Controls – JA66

4.2.1 **VOX** (Voice Operated Switch)

The Voice Operated Switch control is a rotary knob marked VOX located on the top of the JA66 Headset Adapter. To reduce the level of the sound needed to route the microphone audio to the Transceiver Adapter, turn the VOX knob counterclockwise. To increase the level of the sound needed to route the microphone audio to the Transceiver Adapter, turn the VOX knob clockwise. Adjust this setting for proper VOX operation as ambient noise levels change.

4.2.2 **VOL** (Phones Volume Control)

WARNING: Loud noise can cause hearing damage. Before using the headset, set the volume to minimum, and then slowly increase it to a comfortable listening level.

The volume control is a rotary knob marked VOL (volume) located on the top of the JA66 Headset Adapter. To reduce the volume of the audio heard in the headset rotate the VOL knob counterclockwise. To increase the volume of the audio heard in the headset rotate the VOL knob clockwise.

4.2.3 **ICS PTT** (Push To Talk) Button

The intercom Push To Talk button is a blue convex push button switch located on the right side of the JA66 Headset Adapter. The ICS PTT markings are located on the back and front of the unit. When the ICS PTT button is pressed and held, the VOX threshold is overridden, and microphone audio is routed to the paired JA67 Transceiver Adapter(s).

4.2.4 **TX PTT** (Push To Talk) Button

The Transmit Push To Talk button is a red cylindrical push button switch on the left side of the JA66 Headset Adapter. The TX PTT marking is located on the front and back of the unit. When the TX PTT button is pressed and held, microphone audio is routed to the Transceiver Adapter and the TX Key output is activated (Active Low). See sections 6.1 and 6.2 for audio routing details.

This is the user's Transmit 'Push-to-talk' (TX PTT) button. While this button is pressed, the **wiJAC**-D01 system will allow the user to transmit on the connected transceiver. If the TX PTT button is used, the VOX threshold will be overridden (see section 4.2.1 above).

4.3 Headset Jack – JA66

The headset jack is a TJT120 type connector on the top of the JA66 headset adapter. Insert a U-174/U or U93A/U type Headset plug into the JA66 Headset Adapter headset jack.

4.4 Transceiver Connector – JA67

The JA67 Transceiver Adapter has a Female 6 Pin SR30-10R-6S (71) jack which is connected to the transceiver via a suitable cable (see sections 6.1 and 6.2).

4.5 Connectors – Both units

*4.5.1 **IO** Configuration Port (Dealers only)*

This port is used by Approved dealers and installers to connect the unit to a laptop or PC to enable configuration changes using the ProCS™ program.

4.5.2 **PWR** (Charging Port)

The Charging Port is a Micro-USB connector with a flexible cover labeled PWR (power) on the left side of the unit. To charge NiMH batteries, connect a USB (Universal Serial Bus) to Micro USB cable from the Charging Port to a USB power source.

WARNING: Charging battery types other than NiMH or NiCad may cause the batteries to leak or explode and cause damage or injury. If non-NiMH or non-NiCad batteries are installed, do not connect the Charging Port to a USB power source.

4.6 Annunciators – Both Units

4.6.1 **PWR ON** (Power On)

The power on (PWR ON) annunciator is a green LED located on the right side of the unit. In addition to indicating that the unit is turned on, this annunciator indicates the connection status of paired units (see section 5.1)

4.6.2 **LOW BATT** (Low Battery Warning)

The low battery (LOW BATT) annunciator is a red LED located on the left side of the unit. When a unit is turned on, the LOW BATT annunciator will illuminate for 2 seconds.

When the JA66 battery voltage is low the LOW BATT annunciator will flash once every 1.5 s and a low battery notification (a triple beep) will be heard in the headphones once every minute. (A similar but higher pitched tone will be heard if the paired Transceiver Adapter battery charge is low.)

When the unit battery charge is less than or equal to the critical battery voltage, the unit will turn off.

4.6.3 Battery Charge (not shown)

The JA66 and JA67 each have two LED Battery Charge annunciators, one on each side of the charging port under the flexible dust cover marked PWR.

The Fast Charge annunciator is a red light emitting diode (LED) that will illuminate when the batteries are being charged at the maximum charge current.

The Top-Off Charge annunciator is a green LED that will illuminate when Fast Charge mode is complete and the batteries are charged.

4.7 Other

4.7.1 Pairing Registration Number

The pairing registration number is marked on a label in on the back of the JA67. JA66 Headset Adapters should be marked with the same pairing registration number after pairing (see section 5.1).

4.7.2 Battery Lid Release

The battery lid release is a lever on the front of the unit recessed into the battery lid (see section 6.1).

4.7.3 Clothing/Mounting Clip

The clothing clip is on the rear of the JA66 Headset Adapter, and the mounting clip is on the rear of the JA67 Transceiver Adapter. Ensure that the units are attached securely.

NOTE: To avoid loss of communication, always charge rechargeable batteries before every use.

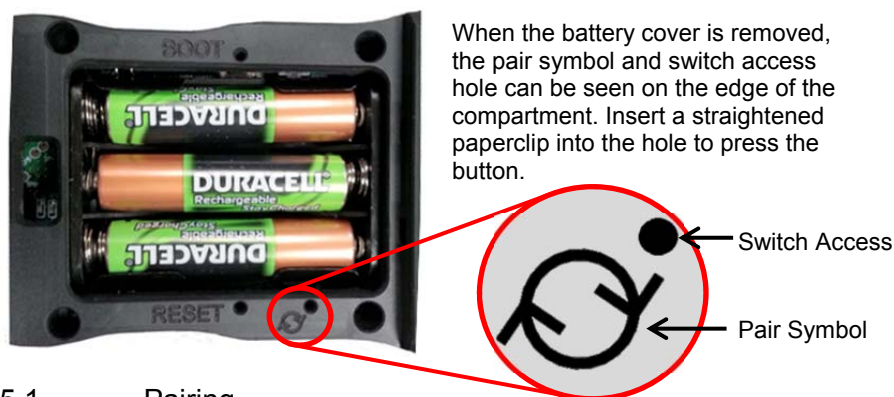
5 Pairing and Purging Process

The **wiJAC**-Txx Wireless Intercom Systems consist of one JA67 Transceiver Adapter, and up to four JA66 Headset Adapters. All Headset Adapters must be paired with the Transceiver Adapter before the system can function correctly.

Note: To remove or replace one or more of the JA66 Headset Adapters that have already been paired with a JA67 Transceiver Adapter, the JA67 **must** be purged to clear **all** existing pairings. See section 5.2 Purging.

Example: A JA67 Transceiver Adapter has been paired with up to four JA66 Headset Adapters. If any of the Headset Adapters are permanently removed or reassigned to another system, the Transceiver Adapter should be purged and the required Headset Adapters paired to it again.

The pair switch is used in both the pairing and purging processes. To locate the pair switch, the battery cover must be removed from the unit.



When the battery cover is removed, the pair symbol and switch access hole can be seen on the edge of the compartment. Insert a straightened paperclip into the hole to press the button.

5.1 Pairing

The pairing process must be performed for each JA66 that is added to the system.

The JA66/JA67 pairing process is described in the following steps:

1. **Turn off the JA67 Transceiver Adapter and all other JA66 Headset Adapter(s) previously paired with the JA67.**
2. **Turn on the JA67.**
   The JA67 enters the standby mode (Power Annunciator blinks in sets of two or three flashes). If the Power Annunciator stays on continuously, there is a JA66 still powered on and connected to the JA67. Please turn off the JA66.
3. **On the JA67, press and hold the Pair Switch (4 seconds) until the Power and Low Battery Annunciators start flashing rapidly (10 flashes /second). Release the Pair switch.**
   The JA67 enters the pairing mode (Power Annunciator is flashing at a medium rate (5 flashes /second) and can now be paired with a JA66.

4. **Turn on a JA66 to be paired with the JA67.**

   The JA66 enters the standby mode (Power Annunciator blinks in sets of two or three flashes).

5. **On the JA66, press and hold the Pair Switch (4 seconds) until the Power and Low Battery Annunciators starts flashing rapidly (10 flashes /second). Release the Pair switch.**

   The JA66 enters the pairing mode (Power Annunciator is now flashing at a medium rate (5 flashes /second) and will complete the pairing process automatically with the JA67.

The JA66 and JA67 indicate that the pairing process is complete when the Power Annunciator is on continuously.

Once pairing is complete, the three character Pairing Registration Number from the back of the JA67 should be written on the label on the back of each paired JA66 using a permanent marker. Ensure that the same number is marked on each unit.

5.2 Purging

Purging the JA67 Transceiver Adapter removes the pairings of all JA66 Headset Adapters.

The purging process is described in the following steps:

1. **Turn off the JA67 Transceiver Adapter and all other JA66 Headset Adapters previously paired with the JA67.**
2. **Turn on the JA67.**

   The JA67 enters the standby mode (Power Annunciator blinks in sets of two or three flashes). If the Power Annunciator stays on continuously, there is a JA66 still powered on and is connected to the JA67. Please turn off the JA66.

3. **On the JA67-001, press and hold the Pair Switch (>8 seconds) until the Power and Low Battery Annunciators turn off. Release the Pair switch.**

   The JA67 enters the purge mode (Power Annunciator blinks in sets of three flashes). Wait for the JA67 to finish purging all paired JA66s from its memory (approximately 10 seconds).

4. **Turn off the JA67.**
5. **Turn on the JA67. If the Power Annunciator blinks in sets of three flashes, the purging process was successful. If the Power Annunciator blinks in sets of two flashes, repeat the purging process from step 1.**

Note: To minimize the risk of system malfunction, do not attempt to pair a JA66 Headset Adapter with more than one JA67 Transceiver Adapter.

6 Connecting the wiJAC™ System

Note: The **wiJAC-**Txx Wireless Intercom System with Transceiver Connection consists of one JA67 Transceiver Adapter and up to four JA66 Headset Adapters. Only paired units will operate together (see section 5).

The JA67 Transceiver Adapter has a Female 6 Pin SR30-10R-6S (71) jack, and should be clipped to a suitable secure point. A headset is inserted into the jack on the JA66 Headset Adapter, which is clipped to the user's belt or clothing. **Headset, audio panel and radio are not included.**

6.1 wiJAC-Txx System with non-Aircraft Radio

When connected to a non-aircraft radio, the linked Headset Adapters are in an intercom loop which allows full duplex communication between the operators of each JA66. Each operator can listen to the linked radio receive audio, and by pressing the TX PTT button can transmit on the linked radio in Simplex mode. When one JA66 is transmitting, all other JA66 mics will be muted, but the operators can listen to the conversation.

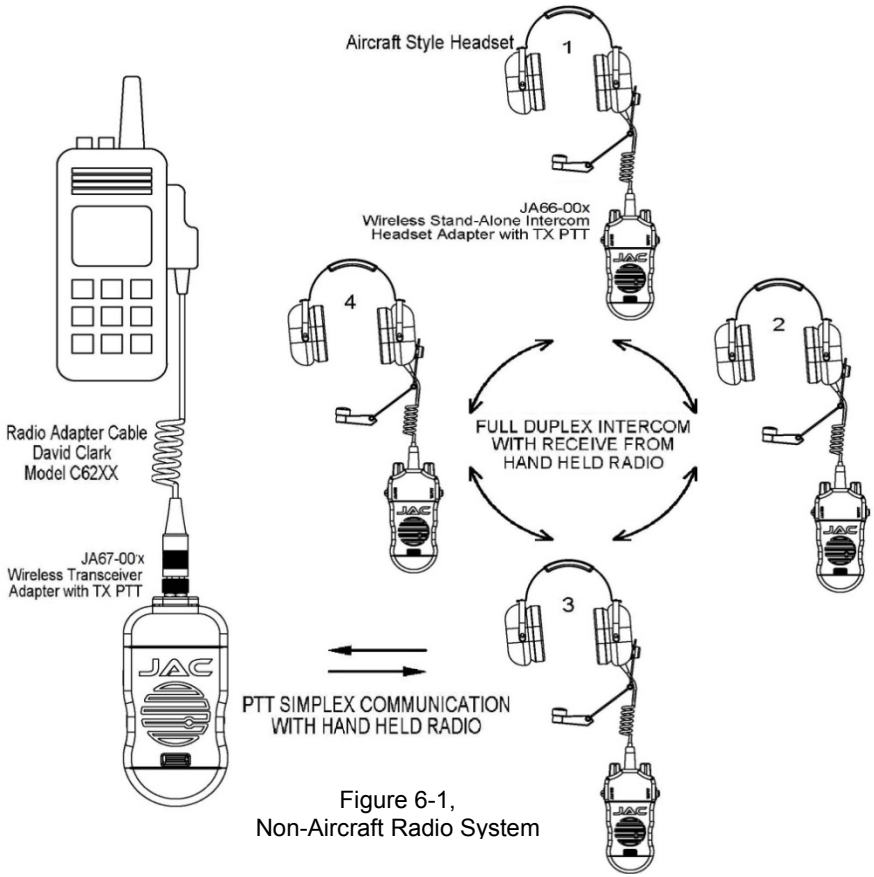


Figure 6-1,
Non-Aircraft Radio System

6.2 wiJAC-Txx System connected to Aircraft Audio System

When connected to an aircraft audio system, the linked Headset Adapters are in an intercom loop which allows full duplex communication between the operators of each JA66. Each operator can listen to the audio selected for the station to which the JA67 is connected, and by pressing the TX PTT button on a JA66, can communicate with the aircraft intercom system in Simplex mode. When one JA66 is communicating, all other JA66 mics will be muted, but the operators can listen to the conversation.

Note: Communication on this intercom loop is isolated from the aircraft intercom system unless the TX PTT button on a JA66 is pressed.

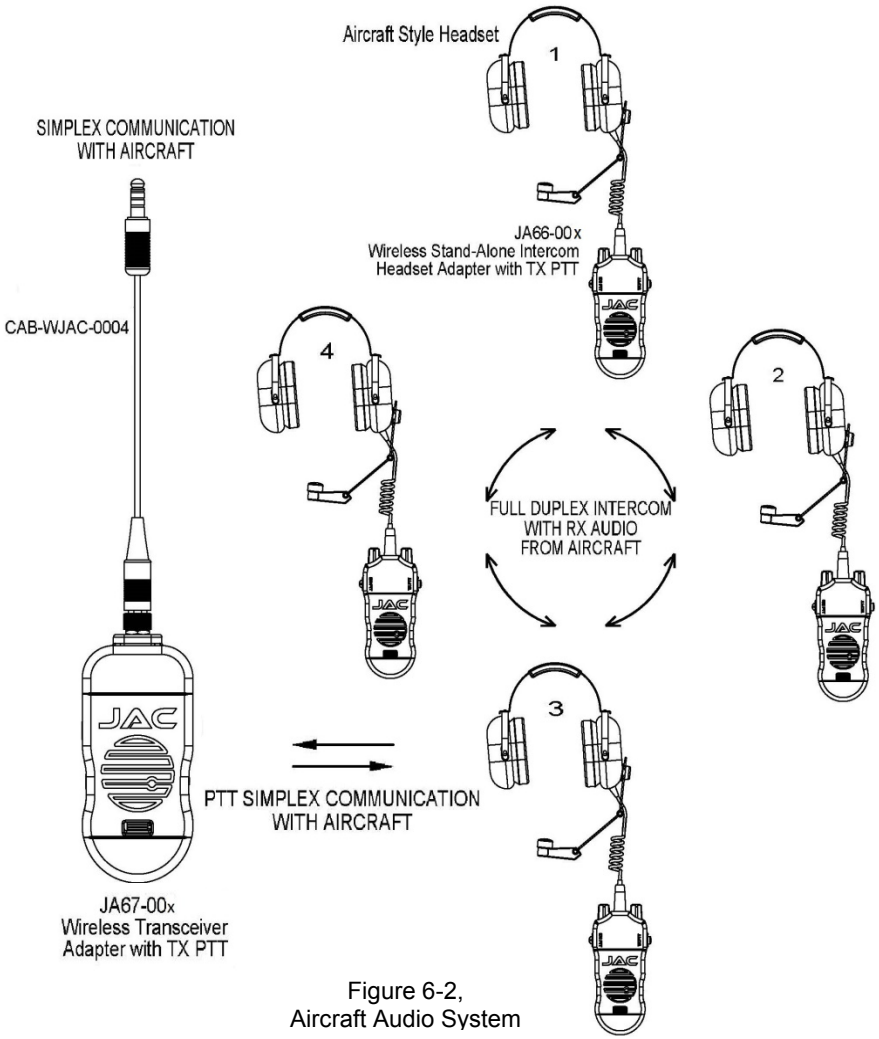


Figure 6-2,
Aircraft Audio System

6.3 **wiJAC**™ Set-up and Connection

6.3.1 Insert Batteries

Ensure the batteries for all units are fully charged and installed in the battery compartment with the correct polarity, and the battery lid is secured (section 6).

6.3.2 Attach JA66 Headset Adapter and JA67 Transceiver Adapter

Insert a headset with a U-174/U or U93A/U type plug into the JA66 Headset Adapter jack.

Connect the JA67 Transceiver Adapter plug to the required connector using the appropriate cable (see sections 6.1 and 6.2 for system examples).

6.3.3 Turn On Paired Adapters and Verify Connection

On the JA66 Headset Adapters, turn the VOL knob fully counterclockwise to minimum. Turn on the JA66 Headset Adapters and the JA67 Transceiver Adapter. On all units, the PWR ON and LOW BATT annunciators will illuminate for two seconds.

- When a unit is turned on, the PWR ON annunciator will illuminate for 2 seconds, and the unit will start to search for its paired unit.
- While the unit is searching for its paired unit the PWR ON annunciator will triple-flash every 1.5 seconds.
- When the unit is connecting to its paired unit, the annunciator wills double-flash every 1.5 s until connection is established.
- After connection, the annunciator will illuminate steady green until the unit is turned off.

6.3.4 Verify System Audio Operation

For an aircraft system, set the aircraft audio system's VOX mode to live, or key the aircraft audio system's ICS PTT for the headset connection used by the JA67 Transceiver Adapter. For non-aircraft radio, increase the radio volume.

Adjust the JA66 Headset Adapter's VOX control to fully counterclockwise and the VOL control to achieve a comfortable listening level. Confirm that the microphone audio is live - all microphone audio is heard in the paired JA66 phones. Confirm that the audio level increases as the VOL control is rotated clockwise and decreases as the VOL control is rotated counterclockwise.

Adjust the Headset Adapter's VOX control to fully clockwise and confirm that the microphone audio is off.

Press the Headset Adapter's ICS PTT button and confirm that microphone audio is heard in the paired JA66 phones. For TX PTT, audio will be heard in the aircraft audio system or transmitted by the attached radio transceiver.

Adjust the Headset Adapter's VOX control for a comfortable speaking level and return the audio system's controls to the previous settings.

6.4 **wiJAC**™ System Operation

6.4.1 System Overviews

Refer to section 6.1 for a non-aircraft radio system overview, and to section 6.2 for an Aircraft audio system overview

6.4.2 Listening Operation

The Headset Adapter's Phones Volume (VOL) controls the level of audio heard in the headset's ear phones. As ambient noise levels change, the volume can be adjusted.

6.4.3 VOX Speaking Operation

To use the JA66 Headset Adapter hands-free, adjust the VOX control so that the microphone audio is turned on when speaking into the headset's microphone at a comfortable level, or at a level to keep the ambient noise from turning on the microphone audio.

6.4.4 TX PTT or ICS PTT Speaking Operation

To use the JA66 Headset Adapter in high-noise environments, adjust the VOX control fully clockwise. To communicate, press and hold the JA66 Headset Adapter's ICS or TX PTT button and speak in to the headset's microphone.

6.4.5 Live Speaking Operation

To use the JA66 Headset Adapter so that the microphone audio is always turned on, adjust the VOX control fully counterclockwise.

6.4.6 Low Battery Warning

When the unit's battery charge is low, the LOW BATT annunciator will triple flash every 1.5 seconds. When the JA66 Headset Adapter battery charge is low, a triple-beep will be heard in the headset once every minute.

Note: JAC recommends that the batteries should be charged or replaced immediately when the LOW BATT warning illuminates during use.

When the battery charge level is critical, the unit will turn off. When one unit is off the other unit will begin searching for its paired unit and its PWR ON annunciator will flash.

6.4.7 Operation during Charging

The units will still operate while the Charging Port is connected to a USB power source, but the batteries will charge at a slower rate. Additional noise may be heard on the audio system while the Charging Port is connected to a USB power source.

6.4.8 Loss of Audio

If there is no audio heard in the headset, check the PWR ON annunciator on the JA66 Headset Adapters and the JA67 Transceiver Adapter. If a unit is off, turn it on and verify connection and operation.

If the battery charge is low, replace or recharge the batteries or remove the wiJAC system.

If audio is unintelligible, discontinue use of the wiJAC system until troubleshooting can be carried out.

If an aircraft system is experiencing a fault, turn off and remove the JA66 Headset Adapters and the JA67 Transceiver Adapter and connect a headset directly to the audio panel. Do not use the JA66 Headset Adapters and the JA67 Transceiver Adapter if they appear to be the cause of the fault.

6.4.9 Battery Life

The operating duration of the **wiJAC**-Txx system with fully charged batteries before battery replacement is required depends on the following factors:

- **Distance between Headset Adapter and Transceiver Adapter:**
  The closer together the units are the lower the radio frequency (RF) power required for connection. This will increase the battery life.
- **Obstacles between the Headset Adapter and Transceiver Adapter (VOL):**
  Minimising the aircraft metal structures, human bodies, cargo and other obstacles between the units will reduce the RF power needed for connection and increase the battery life.
- **Charge capacity of the batteries installed:**
  The higher the capacity of the batteries, typically specified as 500 to 1000 mAh (milliamp-hours), the longer the battery life.
- **The type of batteries installed and the operating temperature:**
  During low temperature operation, rechargeable batteries will lose capacity. When operating in low temperatures use alkaline batteries for a longer battery life.
- **The phones volume level and usage rate:**
  The lower the volume level and the less often audio is output to the phones, the longer the battery life.

7 Batteries

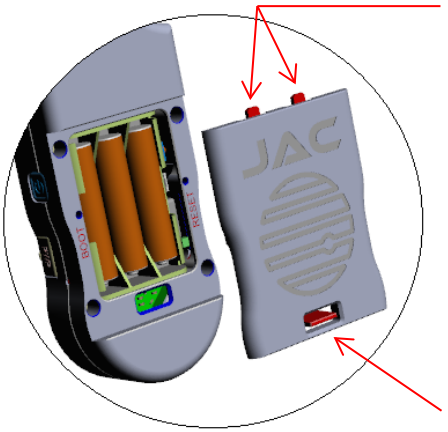
WARNING: Charging battery types other than NiMH or NiCad may cause the batteries to leak or explode and cause damage or injury. If non-NiMH or non-NiCad batteries are installed, do not connect the Charging Port to a USB power source.

The JA66 requires three AAA batteries. JAC recommends Duracell 800 mAh (or higher) NiMH or Duracell alkaline batteries for use in the **wiJAC**™ system to obtain the typical battery life.

Removal of the batteries WILL NOT change any internal configuration of the unit.

Note: Rechargeable batteries MUST be charged before first use.

7.1 Inserting or Replacing the Batteries



Retaining tabs

To replace the batteries (both units the same), remove the battery cover by pressing the battery lid release towards the JAC logo, lifting the lower end of the cover, and then gently prying the lid up and away from the body to release the two tabs from the retaining slots.

Remove the batteries and insert fully charged batteries, matching the polarity marked on the battery holder.

Battery Lid Release

7.2 Charging Batteries in the Unit

To charge rechargeable batteries in the unit, connect the Charging Port to a USB power source using the USB to Micro-USB cable (CAB-USB-0003). If turned on during charging, the unit draws its power from the charging source, not the batteries, but battery charging will take longer. When charging is complete, the 'Top Off' Charge annunciator will illuminate green.

It should be possible to charge the unit via most USB power sources but this cannot be guaranteed for any products not made by or purchased from JAC. Where space allows, JAC recommends the JAC JA72-006 6 Dzus Glove Box with USB connector (see section 8.2)

Note: The batteries will charge whether the JA68/JA67 is switched on or switched off. Battery charging will take longer if the unit is switched on.

7.3 Charging Operation – via Battery Charger

The batteries may be removed from the unit for charging in a separate battery charger. Removal of the batteries WILL NOT change any internal configuration of the unit.

Note: The JA66 and JA67 will only charge the batteries when the internal temperature is within 0 to 40 °C

7.4 Battery Cautions and Warnings

CAUTION: Follow these guidelines to prolong battery life and minimize the risk of unit malfunction.

- Do not leave batteries uncharged for long periods of time.
- Do not leave batteries charging for extended periods (more than 48 hours)
- To ensure that the unit functions correctly, insert the new batteries with the positive and negative poles aligned as indicated in the battery compartment.
- When replacing the batteries, use only new or fully charged batteries.
- Do not mix old and new batteries as this can cause battery leakage and/or damage to the unit.
- Do not mix battery types.

WARNING: Follow these guidelines to prolong battery life, and minimize the risk of fire, chemical burns, electrolyte leaks and/or injury.

- **FOLLOW** the manufacturer's instructions for care and disposal of batteries.
- **DO NOT** use sharp objects to remove the batteries.
- **DO NOT** disassemble, puncture, burn or in any other way damage the batteries.
- **DO NOT** let children handle the batteries.
- **USE ONLY** recommended battery chargers.
- **USE ONLY** recommended replacement batteries.

8 Accessories

8.1 Adapter Cables

The following adapter cables are available from Jupiter Avionics or through JAC dealers/distributors:

Description	JAC Part #
JA67 - 6 pin Hirose plug to 6 pin MS plug – with TX key	CAB-WJAC-0002
JA67 - 6 pin Hirose plug to MIC and Phones Plugs	CAB-WJAC-0003
JA67 - 6 pin Hirose plug to U174 Plug	CAB-WJAC-0004
JA67 - 6 pin Hirose plug to 6 pin MS plug – with ICS key	CAB-WJAC-0005
JA67 - 6 pin Hirose plug to 4 pin 3.5mm Plug - IPhone	CAB-WJAC-0006

The David Clark Radio Adapter Cable model C62XX is available from Dealers/Distributers.

8.2 JA72-005 Glove Box with USB connector

The JA72 Glove Box with USB Charger allows the aircraft owner/operator to utilize an empty portion of the instrument panel for storage.

A USB 2.0 Type A receptacle is provided to supply 5 Vdc power up to 2 Amps, and a 3.5mm stereo jack can be connected to the aircraft's audio system.

8.3 ProCS™ Product Configuration Software

ProCS™ Product Configuration Software and a ProCS™ connection cable are available to approved dealers and installers.

8.4 Battery Charger Recommendations

To charge AAA NiMH batteries, JAC recommends the charger should have individual cell charging (so that three batteries may be charged at once), an automatic shut-off feature and a charge time of two to six hours.

Always follow the manufacturer's recommendations for use of batteries and battery chargers.

9 Specifications

9.1 Mechanical

	JA66-00x	JA67-00x
Height	5.20 in (132.1 mm) max	4.85 in (123.2 mm) max
Overall depth (excluding clip)	1.10 in (27.9 mm) max	1.10 in (27.9 mm) max
Width	2.60 in (66.0 mm) max	2.07 in (52.6 mm) max
Weight (with Batteries)	0.46 lb (209 g) max	0.39 lb (180 g) max
Mounting	Clothing clip	Clothing clip
Headset Connections	4 pole TJT-120 jack	4 pole TP-120 plug
Enclosure Material	Polycarbonate	
Configuration Port	4 pole 3.5mm jack	
Charging Port	USB Micro-AB 2.0	

9.2 Electrical

JA66-00x	
Default MICROPHONE INPUT level	250 mVrms
Microphone Type	150 Ω Amplified Dynamic
Default PHONES OUTPUT level	7.75 Vrms
Phones Type	150 Ω
Charging Port	5 Vdc @ 200 mA
JA67-00x	
Default MICROPHONE OUTPUT level	250 mVrms
Default PHONES INPUT level	7.75 Vrms
Charging Port	5 Vdc @ 200 mA

9.3 Environmental

	JA66-00x	JA67-00x
Operating Temperature	-15 to +50 °C	
Altitude	25,000 ft	
Humidity	95% RH (48 hours)	
Shock, Crash Safety	6 g, 20g (for 11 ms)	

9.4 Other

	JA66-00x	JA67-00x
Battery Life	6 to 8 h (typical)	
Battery Quick Charge Duration	4 h	
Battery Top-Up Charge Duration	48 h max	
Low Battery Notice Duration	15 minutes	
Range	100 meters (typical)	

10 Warranty

Locate and complete the online warranty registration form from the JAC website: www.jupiteravionics.com/warrantyregistration

These products manufactured by JAC are warranted to be free of defects in workmanship or performance for 1 year from the date of purchase from an authorized JAC dealer. This warranty covers the cost of all materials and labour to repair or replace the unit, but does not include the cost of transporting the defective unit to and from JAC or its designated warranty repair centre. This warranty does not cover failures due to abuse, misuse, accident, incorrect battery use/installation, or unauthorized alteration or repairs.

Contact JAC for any questions regarding this warranty and how it applies to your unit(s). JAC is the final arbiter concerning warranty issues.

Contact JAC for a Returned Materials Authorisation Form (RMA) prior to shipping any products for repair. This form can be downloaded from our website at www.jupiteravionics.com/dealersrmaform

11 FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1) this device may not cause harmful interference, and
2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Module transmetteur ID IC: 9576A-SC14A
Son fonctionnement est soumis aux deux conditions suivantes:

1) cet appareil ne doit pas causer d'interférences nuisibles et
2) cet appareil doit accepter toute interference recue, y compris les interferences qui peuvent pertuber le fonctionnement.

Changes or modifications to the equipment not expressly approved by the Party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and the interfered receiver or antenna.
- Turn the equipment off and remove from the aircraft audio system. Connect the headset to the aircraft audio system.
- Consult Jupiter Avionics Corp or an experienced avionics technician for help.

Note: Privacy of communications may not be ensured when using this equipment.

JUPITER AVIONICS
CORPORATION

Jupiter Avionics Corporation
1959 Kirschner Road
Kelowna BC
Canada V1Y 4N7
Tel: +1 778 478 2232
Toll-Free: 1 855 478 2232
www.jupiteravionics.com