



JUPITER AVIONICS
C O R P O R A T I O N

wi JAC -0xx (JA60/JA61)
Wireless Intercom System



Operating Manual

Rev. C



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Table of Contents

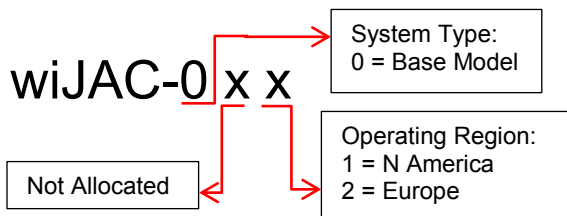
1	Introduction	1
1.1	Unpacking	2
1.2	Verify Operating Region	2
1.3	Verify Pairing Registration Number	2
2	JA60-00x Headset Adapter (JA60).....	3
3	JA61-00x Intercom Adapter (JA61).....	3
4	Controls, Annunciators and Connectors	4
4.1	□ (ON/OFF) Button – Both units.....	4
4.2	Controls – JA60	4
4.2.1	VOX (Voice Operated Switch)	4
4.2.2	VOL (Phones Volume Control)	4
4.2.3	PTT (Push To Talk) Button	4
4.3	Headset Jack – JA60.....	4
4.4	Intercom Connector – JA61	4
4.5	Connectors – Both units	5
4.5.1	IO Configuration Port (Dealers only).....	5
4.5.2	PWR (Charging Port).....	5
4.6	Annunciators – Both Units	5
4.6.1	PWR ON (Power On)	5
4.6.2	LOW BATT (Low Battery Warning).....	5
4.6.3	Battery Charge (not shown)	5
4.7	Other	6
4.7.1	Pairing Registration Number.....	6
4.7.2	Battery Lid Release	6
4.7.3	Clothing/Mounting Clip	6
5	Connecting the wiJAC™ System	7
5.1	wiJAC™ Set-up and Connection	8
5.1.1	Insert Batteries	8
5.1.2	Attach Connectors to Aircraft and Headset	8
5.1.3	Turn On Adapters and Verify Connection	8
5.1.4	Verify Audio Operation	8
5.2	wiJAC™ System Operation.....	9
5.2.1	Overview	9
5.2.2	Listening Operation	9
5.2.3	VOX Speaking Operation	9
5.2.4	PTT Speaking Operation	9
5.2.5	Live Speaking Operation	9
5.2.6	Low Battery Warning	9
5.2.7	Operation during Charging	10
5.2.8	Loss of Audio	10
5.2.9	Battery Life.....	10
6	Batteries.....	11
6.1	Inserting or Replacing the Batteries	11
6.2	Charging Batteries in the Unit	11
6.3	Charging Operation – via Battery Charger	12
6.4	Battery Cautions and Warnings	12
7	Accessories.....	13
7.1	JA72-005 Glove Box with USB connector.....	13
7.2	ProCS™ Product Configuration Software	13
7.3	Battery Charger Recommendations	13
8	Installation of the JA61 Mounting Bracket.....	14
9	Specifications.....	15
9.1	Mechanical	15
9.2	Electrical.....	15
9.3	Environmental	15
9.4	Other	15
10	Warranty	16
11	FCC Compliance Statement.....	16



1 Introduction

This manual contains the operating instructions for the **wiJAC-00x** Wireless Intercom System.

The diagram below describes the naming method for the different systems.



North America:

The **wiJAC-001** consists of one JA60-001 Wireless Aircraft Headset Adapter, and one JA61-001 Wireless Aircraft Intercom adapter.

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-002** consists of one JA60-002 Wireless Aircraft Headset Adapter, and one JA61-002 Wireless Aircraft Intercom adapter.

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 1.3](#))

System operating information is in [section 5.2](#).



WARNING: JAC recommends that no battery operated device should be relied upon as the sole method of communication in cases where there is potential risk to life or limb.



1.1 Unpacking

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

- one ea. Wireless Aircraft Headset Adapter, JAC P/N JA60-00x
- one ea. Wireless Aircraft Intercom Adapter, JAC P/N JA61-00x
- one ea. Mounting Bracket, JAC P/N PLT-CLIP-0004
- two pkg. of AAA rechargeable batteries
- two ea. USB to Micro USB cables, JAC P/N CAB-USB-0003
- one wiJAC™ Quick Start Guide, JAC P/N DOC-GUID-WIJAC

If any of the above items are missing, or there is any sign of damage to the packaging, contact your dealer immediately.

1.2 Verify Operating Region

The **wiJAC-00x** 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.

1.3 Verify Pairing Registration Number

The **wiJAC-00x** Wireless Intercom System consists of one set of paired Adapters. The JA60-00x Headset Adapter must be paired with a JA61-00x Intercom Adapter. Ensure that the same three character Pairing Registration Number is marked on a label on the back of each unit.



2 JA60-00x Headset Adapter (JA60)



Fig 3-1, JA60 Right Side View

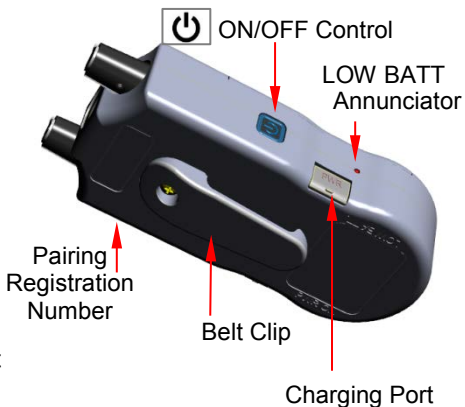


Fig 3-2, JA60 Left Side View



Fig 3-3, JA60 Top View

3 JA61-00x Intercom Adapter (JA61)

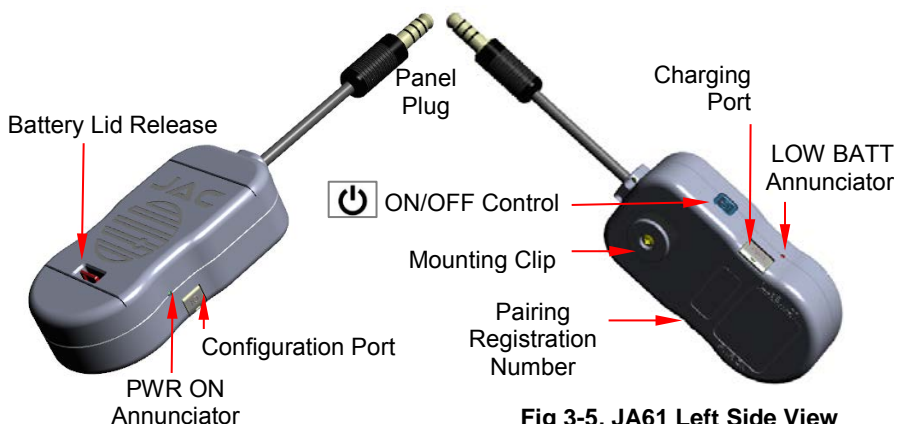


Fig 3-4, JA61 Right Side View

Fig 3-5, JA61 Left Side View



Note: The units are shown in grey for clarity.



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 – JA60

4.2.1 VOX (Voice Operated Switch)

The Voice Operated Switch control is a rotary knob marked VOX located on the top of the JA60 Headset Adapter. To reduce the level of the sound needed to route the microphone audio to the Intercom Adapter, turn the VOX knob counterclockwise. To increase the level of the sound needed to route the microphone audio to the Intercom 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 JA60 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 PTT (Push To Talk) Button

The intercom Push To Talk button is a push button switch marked ICS located on the right side of the JA60 Headset Adapter. When the ICS PTT button is pressed and held, the VOX threshold is overridden, microphone audio is routed to the paired JA61 Intercom Adapter, and the ICS Key output is activated.

4.3 Headset Jack – JA60

The headset jack is a TJT120 type connector on the top of the JA60 headset adapter. Insert a U-174/U or U93A/U type Headset plug into the JA60 Headset Adapter headset jack.

4.4 Intercom Connector – JA61

The JA61 Intercom Adapter connects to the aircraft audio panel.



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 5.1.3](#))

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 JA60 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 JA61 Intercom 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 JA60 and JA61 Battery Charge annunciators are two LEDs, 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 each unit. A JA60 Headset Adapter will connect only to the JA61 Intercom Adapter with the same pairing registration number.

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 JA60 Headset Adapter, and the mounting clip is on the rear of the JA61 Intercom Adapter. Ensure that the units are attached securely.



5 Connecting the wiJAC™ System



Note: The **wiJAC-00x** Wireless Intercom System consists of one JA60 Headset Adapter and one JA61 Intercom Adapter. Only paired units will operate together (see [section 5.1.3](#))

The JA61 Intercom Adapter has a plug that is inserted into a jack in the aircraft where the headset is normally connected. A headset is inserted into the jack on the JA60 Headset Adapter, which is clipped to the user's belt or placed in a pocket. **Headset and audio panel are not included.**

*Typical wiJAC™
Set Up*



JA60 Headset Adapter
(Connected to user's headset)

JA61 Intercom Adapter
(Plugged into aircraft headset jack)



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



5.1 **wiJAC™ Set-up and Connection**

5.1.1 Insert Batteries

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

5.1.2 Attach Connectors to Aircraft and Headset

Connect the JA61 Intercom Adapter plug to a MS3110 Flo-65 or equivalent connector.

Insert a headset with a U-174/U or U93A/U type plug into the JA60 Headset Adapter jack.

5.1.3 Turn On Adapters and Verify Connection

On the JA60 Headset Adapter, turn the VOL knob fully counterclockwise to minimum. Turn on the JA60 Headset Adapter and the JA61 Intercom Adapter. On both 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 will double-flash every 1.5 s until connection is established.
- After connection, the annunciator will illuminate steady green until the unit is turned off.

5.1.4 Verify Audio Operation

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 JA61 Intercom Adapter.

Adjust the JA60 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 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 phones. Repeat this process for the TX PTT button.

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



5.2 **wiJAC™ System Operation**

5.2.1 Overview

When both units are turned on and connected, phones audio from the aircraft audio system is transmitted from the Intercom Adapter, received by the Headset Adapter and output on the headset's phones. Microphone audio from the headset's microphone is transmitted from the Headset Adapter, received by the Intercom Adapter and output to the aircraft's audio system.

5.2.2 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.

5.2.3 VOX Speaking Operation

To use the JA60 Headset Adapter hands-free, adjust the VOX control so that the microphone audio is turned on when speaking in to the headset's microphone at a comfortable level, or at a level to keep the ambient noise from turning on the microphone audio.

5.2.4 PTT Speaking Operation

To use the JA60 Headset Adapter in high-noise environments, adjust the VOX control fully clockwise. To communicate, press and hold the JA60 Headset Adapter's PTT button and speak in to the headset's microphone.

5.2.5 Live Speaking Operation

To use the JA60 Headset Adapter so that the microphone audio is always turned on, adjust the VOX control fully counterclockwise.

5.2.6 Low Battery Warning

When the unit's battery charge is low, the LOW BATT annunciator will triple flash every 1.5 seconds. When the JA60 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 if 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.



5.2.7 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.

5.2.8 Loss of Audio

If there is no audio heard in the headset, check the PWR ON annunciator on the JA60 Headset Adapter and the JA61 Intercom 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 connect the headset directly to the aircraft audio system.

If audio is unintelligible, turn off and remove the JA60 Headset Adapter and the JA61 Intercom Adapter and connect the headset directly to the audio panel.

If another aircraft system is experiencing a fault, turn off and remove the JA60 Headset Adapter and the JA61 Intercom Adapter and connect the headset directly to the audio panel. Do not use the JA60 Headset Adapter and the JA61 Intercom Adapter if they appear to be the cause of the fault.

5.2.9 Battery Life

The operating duration of the **wiJAC-00x** system with fully charged batteries before battery replacement is required depends on the following factors:

- **Distance between Headset Adapter and Intercom 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 Intercom 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.



6 Batteries

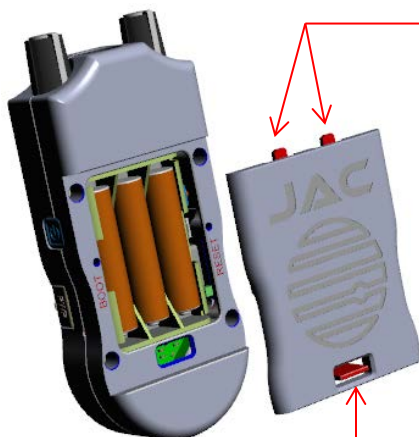


WARNING: Charging battery types other than NiMH or NiCad may cause the batteries to leak or explode and cause damage or injury. If non-NiMH or non-NiCad batteries are installed, do not connect the Charging Port to a USB power source.

The JA60 and JA61 require 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.

6.1 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

6.2 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 7.1](#))



Note: The batteries will charge whether the JA60/JA61 is switched on or switched off. Battery charging will take longer if the unit is switched on.



6.3 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 JA60 and JA61 will only charge the batteries when the internal temperature is within 0 to 40 °C

6.4 Battery Cautions and Warnings









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

-  Do not leave battery uncharged for long periods of time.
-  Do not leave battery 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.



7 Accessories

7.1 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.

7.2 ProCS™ Product Configuration Software

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

7.3 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.

8 Installation of the JA61 Mounting Bracket

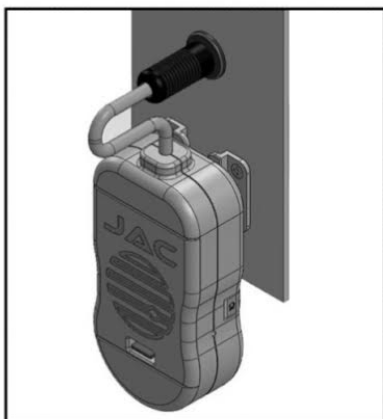


Fig 8-1 - Bracket-mounted JA61

The JA61 Intercom Adapter is supplied with a mounting bracket (part number PLT-CLIP-0004) which may be used to mount the unit in the aircraft.

The circular mounting clip on the JA61 slides into the mounting bracket and clicks into position. It can be used in any orientation.

Fig 8-2 - Mounting bracket dimension

The mounting bracket is 1.7" wide by 1.2" high. It is attached using four screws MS24693 and four locking nuts MS21044-NO4 through four 1/8" diameter holes.

Ensure that there is sufficient space to connect the JA61 to the mounting bracket and to the aircraft headset jack.

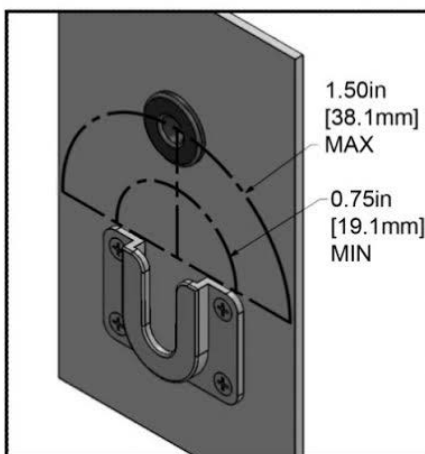
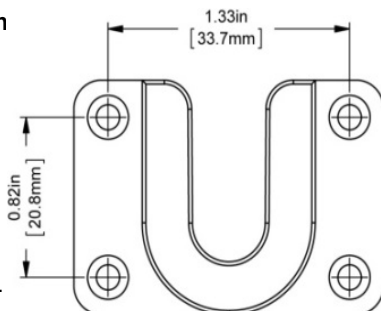


Fig 8-3 - Bracket/jack proximity

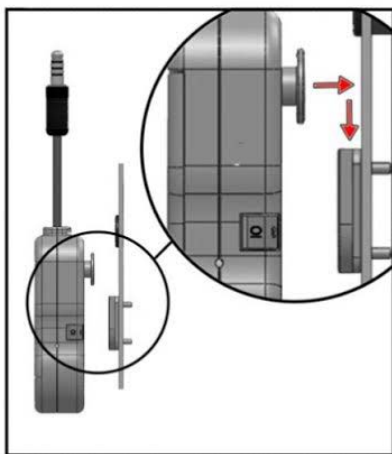


Fig 8-4 - Mounting details



9 Specifications

9.1 Mechanical

	JA60-00x	JA61-00x
Height	4.79 in (122 mm) max	8.15 in (207.0 mm) max
Overall depth	1.10 in (27.9 mm) max	1.10 in (27.9 mm) max
Width	2.05 in (52.1 mm) max	2.05 in (52.1 mm) max
Weight (with Batteries)	0.39 lb (178 g) max	0.33 lb (149 g) max
Mounting	Belt clip	Mounting bracket
Headset Connections	4 pole T-JT-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

JA60-00x	
Default MICROPHONE INPUT level	250 mVrms
Microphone Type	150 Ω Amplified Dynamic
Default PHONES OUTPUT level	4.00 Vrms into 150 Ω
Phones Type	150 Ω
Charging Port	5 Vdc @ 200 mA
JA61-00x	
Default MICROPHONE OUTPUT level	300 mVrms
Default PHONES INPUT level	4.50 Vrms into 600 Ω
Charging Port	5 Vdc @ 200 mA

9.3 Environmental

	JA60-00x	JA61-00x
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

	JA60-00x	JA61-00x
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 interférence reçue, y compris les interférences qui peuvent perturber 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 receiver.
- 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.

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



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