

# **RAAF**

## **Black Noise Environment Headset**



**NSN: 5965-66-127-1942**

**Cage Code: Z8X88**

***HEADSET INSTRUCTIONS  
AND  
USER GUIDE***

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### **CERTIFICATION DATA**

Mobile One headsets are tested and comply with AS/NZS1270 -2002, Acoustics - Hearing Protectors. NOTE: As hearing protectors, Headsets must be selected, used and maintained according to AS/NZS 1269.

**These instructions must be followed if the headset is expected to perform as indicated by the SLC80 rating in the chart below:**

PRODUCT CODE	SLC80 RATING	CLAMP FORCE	FREQUENCY Hz	125	250	500	1000	2000	4000	8000
HSP-1	31	10.4 N	MEAN	16.0	20.7	30.4	34.8	35.8	39.6	41.8
			STD. DEVTN.	3.5	3.0	3.3	3.8	4.1	3.8	5.3
			MEAN – STD. DEV.	12.5	17.7	27.1	31.0	31.7	35.8	36.5

***According to the Class rating system, this Headset is a Class 5***

***Total Headset Mass = 423 g***

### **WARNINGS**

This headset will only provide the hearing protection as indicated by the SLC80 rating when it is maintained in good working order and fitted correctly. Other factors affecting the noise attenuation characteristics of the headset are items which affect the seal between the Ear Cushion and the head e.g. thick framed glasses, protective clothing such as balaclavas, thick beards, etc.

It is vitally important that you give consideration to the sound output produced by the earphones in the headset itself. You must ensure that the volume setting of the radio, or other connected device, is adjusted to a safe listening level as there are no output limiting devices included within the electronic circuitry of the headset.

For correct care of this Headset, you must refer to the Care and Maintenance Instructions on page 7.

## **FITTING INSTRUCTIONS**

The purpose of a Headset is to:

- 1. Protect your hearing**
- 2. Provide electronic communications**

**Correct fitment of the Headset to your head is vital for maximum hearing protection and to optimise communications ability.**

## **A CORRECTLY FITTED HEADSET**



Figure A



Figure B

## **PARTS OF A HEADSET**



- 1. Headband**
- 2. Adjusting Slide**
- 3. Ear Cushion**
- 4. Ear Cup**
- 5. Microphone (Mic.) attachment socket**
- 6. Mic. Boom**
- 7. Wind Sock**

Figure C

**NB: The Headset Ear Cups must be fitted over your ears covering and enclosing them completely**

The Headset should be fitted so that the horizontal axis of the Ear Cup bisects the approximate tip of the nose of the wearer. This usually means the Headband of the headset will be located directly above the ears, however the headband may be adjusted slightly forward or rearwards for maximum comfort. See figure D below.

**Note:**

- 1. The horizontal axis at the nose shown as the solid black line**
- 2. The vertical position of the Headband on the top of the head as compared the vertical white dotted line**

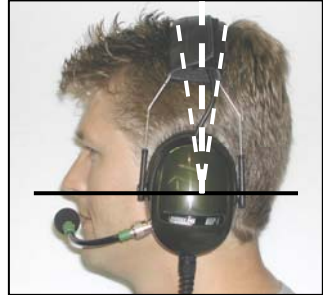


Figure D

## STEP BY STEP USER GUIDE

**NOTE: The Headset is intended to be worn with the microphone and cable on the left side of the head.**

### STEP 1 Fitting the Mic. Boom



Fit the Microphone Boom assembly to the mounting socket located on the **Left Side** Ear Cup (cable side).

Rotate the collar clockwise whilst screwing onto the socket on the Ear Cup. Firmly **finger-tighten** only.

Partly bend the boom to where you estimate your mouth will be, ensuring the **Yellow Dot** is facing **towards the mouth**.

Figure 1.0

## STEP 2 Fitting the Headset

Holding the Ear Cups as shown, slightly stretch Headset apart just enough place over your head (see Figure 2.0). Release and make sure the Ear Cups sit evenly over your ears and cover them completely. Move the Headset so the Headband is sitting correctly and comfortably on your head (see again Figure D).



Figure 2.0

## STEP 3 Adjusting the Ear Cups

a) Figure 3.1 below illustrates how the black Adjusting Slides can be moved up or down on the Headband. This allows you to adjust the position of the Ear Cup to provide better comfort and a more efficient seal on the head to keep out noise.

b) With one hand, hold the Headband steady at the top of your head (as shown in Figure 3.2). Holding the Ear Cup with your other hand, move it up or down to find the best position so that the Ear Cup completely seals onto your head, around your ear. No part of the ear should be caught between the Ear Cushion and the head. Make similar adjustments for both sides and ensure Headset fits snugly.

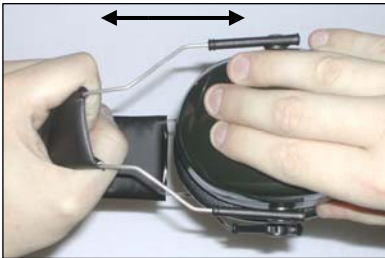


Figure 3.1



Figure 3.2

## STEP 4 Ensuring Ear Cups seal against your head



Placing one hand against each Ear Cup, firmly push both Ear Cups inwards against your head and hold for 2 seconds. This action moulds and helps the Ear Cushions to form an efficient seal against the head around your ears which improves both comfort and hearing protection.

Figure 4.0

## STEP 5 Adjusting the Mic. for maximum clarity

### (5a) ADJUSTING MIC. DISTANCE

Microphone must be positioned as close to the lips as is comfortable. See Figure 5.1.

**Maximum Distance  
From lips = 5 mm**



### (5b) ADJUSTING MIC. POSITION

Adjust windsock (Microphone) to be directly in the centre of the mouth opening. Ensure that the Yellow Dot is facing toward your mouth. See figure 5.2.

**NB: Project your voice loudly and clearly into the microphone**

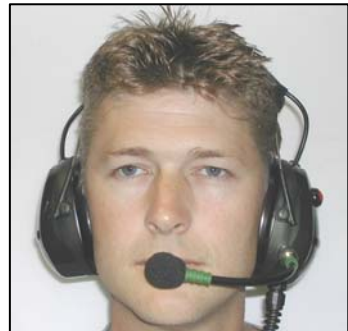


Figure 5.2

## STEP 6 Checking electronic operation

### Check Earphones (speakers)

You should hear sound from your radio in both Ear Cups. If this is not the case, check the connection to the communications device or that the device is operating properly

### Check Microphone

Check that the speech you are attempting to transmit is reaching the intended person, clearly.

**Caution:** Do not set the volume level of the radio, or other connected, device too high! See paragraph 2 of **Warnings** on page 2.

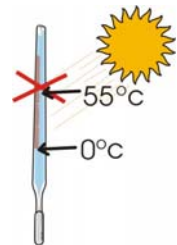
## **CARE & MAINTENANCE**

We recommend that your headset be cleaned regularly, by wiping with a damp sponge containing mild soap and water. Pay special attention to the Ear Cushions to ensure removal of perspiration and skin oils which can reduce the service life of the Cushions. These areas of the Headset that come into contact with the wearer's skin should also be regularly disinfected using isopropyl alcohol wipes.

When cleaning **DO NOT** allow moisture to enter the Ear Cup assemblies or any part of the Microphone Assembly. **UNDER NO CIRCUMSTANCES SHOULD YOU IMMERSE THE HEADSET IN ANY LIQUID.**

To maintain the noise attenuation properties of the Headset, the Ear Cushions (see Figure 6.0, item 5) should be replaced every six months and the inner foam assembly (see Figure 6.0, item 4) every twelve months. More frequent replacement of these items may be required if the Headset is being used under extreme conditions. Inspect the headset regularly for signs of damage or wear.

**IMPORTANT: This Headset should not be stored in direct sunlight or temperatures above 55 degrees C. as distortion of the Ear Cushions may occur.**



## **PARTS REPLACEMENT** (See items 1 – 5 pictured in Figure 6.0)

The LEATHER HEAD BAND COVER (item 1) is simply wrapped around the Head Band with the edges overlapping so that the Velcro seam can be evenly pressed together. To remove the cover, pull the top overlap away from the bottom at the Velcro seam.

To remove and replace MIC. BOOM (item 2) see the “Fitting Instructions - Step 1” and simply reverse the process by unscrewing, counter clockwise, the knurled nut at the base of the MIC. BOOM.

The EAR CUSHIONS (item 5) are removed by placing one or two fingers inside the Ear Cup and under the Ear Cushion's rigid plastic plate. Hold the Ear Cup firmly with the other hand and pull the Ear Cushion plate until it pops out of the Cup. The new Cushions just clip back into place under the lip around the circumference of the ear Cup opening. Ensure the Ear Cushion plate has seated and clipped in properly before use.

The INNER FOAM ASSEMBLY (item 4) also supports the Earphone and care should be taken not to damage the wiring. With the Ear Cushions removed,

carefully take out the foam wafer and pull apart the two bottom layers where the wires enter. Carefully remove the Earphone. Place the Earphone into the new foam, remove paper cover and press both layers together. Install foam back in cup and replace Ear Cushion.

The WIND SOCK (item 3) is the black foam cover for the Microphone at the end of the Mic. Boom. To remove, simply pull the Wind Sock off the end of the Mic. Boom and gently stretch and pull the replacement Wind Sock over the Microphone again.

### HEADSET PARTS – EXPLODED VIEW



Figure 6.0

### REPLACEMENT PARTS LIST

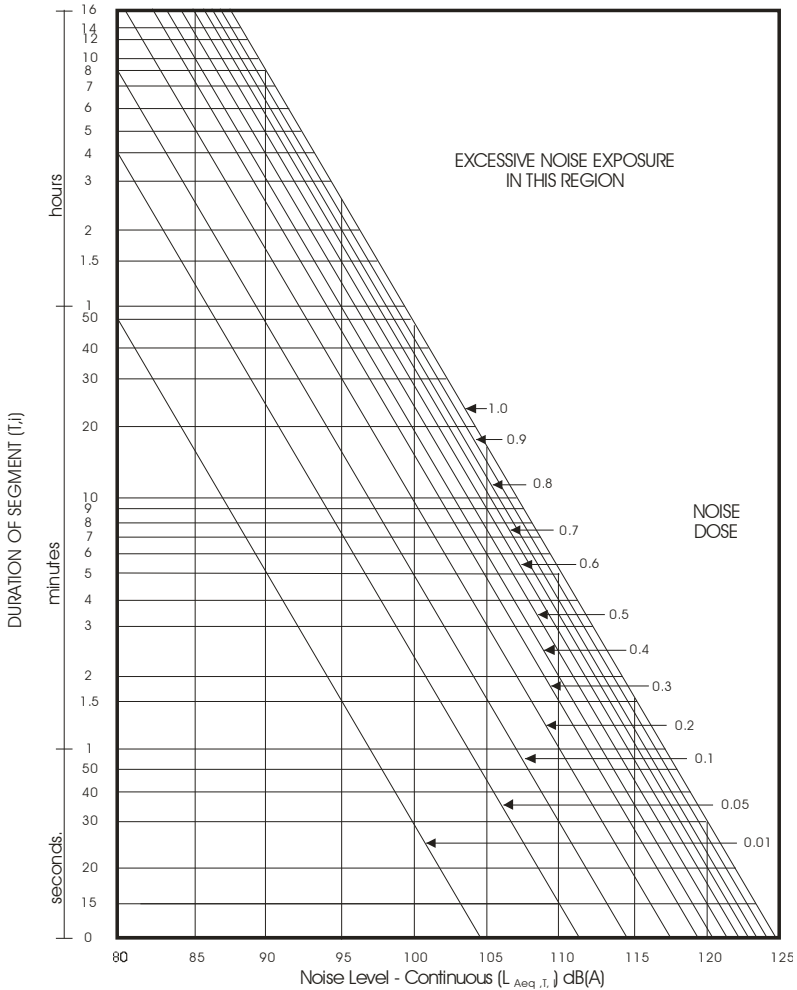
Order Code	Description
<b>HSPHYG</b>	Hygiene Kit (items 4 & 5)
<b>HBP</b>	Leather Headband Cover (item 1)
<b>MB102</b>	Microphone Boom (items 2 & 3)
<b>WSS2</b>	Replacement Wind Sock for Mic. Boom (item 3)



# **NOISE EXPOSURE**

There is considerable medical research data now available which clearly demonstrates a link between the loss of hearing in humans as a result of exposure to noise. The factors which contribute to this loss of hearing are many and complex, and as the Headset user you should discuss your requirements with suitably qualified professionals to ensure that the headset you have selected is suitable for the type (frequencies) of noise & level of noise you may encounter as well as the period of exposure. The chart below should be read in conjunction with AS/NZ standard 1269.

**Noise Exposure Chart**



## WARRANTY

# WARRANTY STATEMENT

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is given by Mobile One Australia Pty Limited, ABN 44 001 885 696,  
Camden Airport Camden NSW 2570 Ph 02 4655 6677

The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product (or service) which the consumer has under the Australian Consumer Law and any other law in relation to goods and services to which this warranty relates.

Any Mobile One Australia Pty Limited product that fails due to manufacturing defects will be repaired or replaced as follows:

### **General Aviation & Helicopter Headsets**

Three (3) full years from date of purchase

### **Intercoms, Headsets other than above & Accessories**

One (1) full year from date of purchase

### **Base, Mobile Antennas & Accessories**

Five (5) full years from date of purchase

### **What this warranty does not cover**

All headset inner foam assemblies windsocks & ear pads.

Goods that have been modified or altered in any way.

Defects or damage resulting from misuse, accident, impact or neglect.

Goods improperly installed or used contrary to the relevant user guide.

Unauthorised service and or repairs.

### **How to make a warranty claim**

Before the end of the applicable warranty period (see above) return the goods at your expense together with details of the defect, proof of purchase and your contact details.

Subject to accepting your claim, we will return your repaired or replacement product back to you by the best shipping method at our cost.



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M1Warranty 2012 rev1

## **CONTACT DETAILS**

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**HEADSETS - INTERFACES - CUSTOM MANUFACTURING - DEFENCE**



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