

Instructions for the fitting, use and maintenance of Genesis 4, Generic Headset System

EU Type Examination against Regulation (EU)2016/425 of Genesis 4 headset products made up of the following components:

B190S3051	G4 Headset Left*
B190S3050	G4 Headset Right*
B190S1060	G4 Generic Adaptor Kit comprising L&R Base, Blocker, Helix Tips and Curved Eartips

*** Note: Headsets are supplied to order in either Left or Right orientation fittings according customer request.**

Spare parts when supplied as individual components

B250-1001	Curved Eartip Size 1 Small
B250-1002	Curved Eartip Size 2 Medium
B250-1003	Curved Eartip Size 3 Large
B250-1004	Curved Eartip Size 4 Extra Large
B190S3051	G4 Headset Left
B190S3050	G4 Headset Right
A130-1705	G4 Blocker
B190S1060	G4 Generic Adaptor Kit comprising Blocker, Helix Tips and Curved Eartips
A1301011BK	Helix tip set: Small, medium, Large and Extra Large (1 of each)

**Manufactured in the UK by Sensorcom Ltd, 4-6 Thayers Farm Road,
Beckenham, BR3 4LZ in accordance with EN352-2:2020 and EN352-9:2020**

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Important: It is essential that the enclosed user instructions are followed to avoid damage to your hearing when exposed to noise. If instructions are not followed it will severely impact the hearing protection offered by the earplugs.

Overview. The hearing protection embodied within a communications system designed to be used with communications radio operating when in noisy areas and communications are necessary. It is essential that the headset system is always used when in noisy surrounding. Always check the headset system components to ensure that they are assembled correctly and are not damaged. If the instructions are not followed correctly the efficacy can be impaired. Always make sure that the headset cord is secured especially if using near machinery with moving parts. If using the headset system in areas where there are chemicals present, please consult the manufacturer for information to determine if the headset system could be damaged, Please refer to the Criterion Levels to determine the recommended usage time and if undue levels of distortion are heard then refer to the manufacturer for guidance on maintenance that may be necessary. This headset system is designed for use with communications systems and should not be used for the purposes of entertainment as the audio circuit may exceed the noise exposure limit.

Fitting the generic headset. The headset is formed of three parts, the headset, the generic eartip adaptor and the eartips. It is configured in this way as the same headset can be used with custom-fit earmoulds. In addition to this there are 4 sizes of helix tips allow the adaptor to fit into the helix comfortably to provide headset stability. The headsets are supplied according to customer preference for fitting in the right or left ear.

Fitting the headset into the adaptor. This is a push fit and will click into place when seated correctly. The blocking adaptor is a similar profile but without the microphone boom or earphone and should be fitted in the same way. Ensure that the sealing **O** ring is in place.

Fitting the blocker into the adaptor. The blocker is a small plastic part with the same type of fitting as the headset and this will block the sound entering the ear. Fit this into the adaptor and ensure that the sealing **O** ring is in place.

Removing the Headset and Blockers. Do not attempt to remove the Headset or the Blockers from the adaptors without using a small flat-bladed tool like a screwdriver. Push the flat-bladed screwdriver into the space between the headset and the adaptor and gently prise apart. **DO NOT** attempt to remove by pulling the cable or mic boom as this may cause damage. The opposing blocker can be removed in the same way. Once fitted there should not be the need to remove these unless for service.

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Selecting and fitting the eartips. When the headset/blocker is fitted the eartips should be fitted. The eartips should be selected for the optimum fit; there are 4 sizes, S (small), M (medium), L (large), and XL (Extra-large). Properly fitted these will give good level of attenuation of surrounding sounds and it is important that the correct size eartip is used to provide hearing protection. Start with the XL eartip and depending on the fit, progressively reduce the eartip size until it feels secure in the ear without discomfort. The eartips are shaped so that they will follow the natural curvature of the ear which runs upwards toward the back and top of the head.



Eartips are numbered: S – XL
at the base of the eartip ring

Nominal Sizes of Eartips

Small (S)	Medium (M)	Large (L)	Extra Large (XL)
7mm	8mm	8.5mm	9mm



The stability of the headset is aided by the (helix) hook that locates into the helix of the ear. There are 4 sizes of helix tips supplied and these should be selected based on the size of the helix and the comfort level that will provide headset stability. Insert the headset into your ear and twist gently until seated and the helix prong is seated in your helix. Now do the same with the corresponding adaptor with the blocker. The headset must be orientated to make sure that the microphone is in front of the mouth and the boom can be formed using the thumb, forefinger, and middle finger. For optimum operation, the microphone foam should just touch the mouth. A cable guide is provided for use when routing the cable is this way and will aid the stability of the headset.

A video of this process can be viewed at www.sensorcom.com/downloads

Removing the Headset/Blocker from the ear. Using the thumb and forefinger, grab the plastic body and remove from the ear with a slight twisting motion; if this is done too quickly it could result in damage to the eardrum. Do not use connecting cable or microphone boom to remove

Cleaning and Maintenance. The headset should be cleaned after every use. Remove the eartips and wash in warm soapy water, rinse, and place on an absorbent paper towel to dry. The silicon eartips will last a long time if kept clean but if there is any sign of damage then they should be replaced. Replace every two years to maintain earplug efficacy. The headset should be cleaned with an antiseptic wipe. NEVER immerse the entire headset in water.

*Note: User Instructions and the Declaration of Conformity will be available at www.sensorcom.com/downloads Filename: Genesis 4

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Guarantee, Service and Quality. If any of the components become damaged, they should no longer be used as this will affect its efficacy.

Storage. When not in use store the headset system in the pouch provided in a dry place out of direct sunlight within an ambient temperate range not exceeding -20° to +50°.

Materials. The eartips are manufactured for a TPE (Thermo Plastic Elastomer) which is hypoallergenic and will provide a service life of >2years if properly maintained. If any of the fins that surround the eartip appear damaged or torn the eartip should be replaced to ensure hearing protection efficacy. This product may be adversely affected by certain chemical substances: further information should be sought from Sensorcom.

Attenuation Values Full results are listed within document SPC0309909

	SNR_j	H_j	M_j	L_j
Mean Attenuation	26.0	26.0	24.6	23.4
Standard Deviation	2.2	2.1	2.8	4.3
Final	23.7	23.9	21.7	19.1

SNR = 24 H = 24 M = 22 L = 19

Key: SNR Value Single Number Rating meaning the number that can be subtracted from the measured value to estimate the A-weighted sound pressure level inside the ear

Criterion Level Assessment (EN13819-3:2019) Full results are listed within document SPC0309909

Input Signal (V)	0.09	0.16	0.28	0.49	0.88	1.56
SLP (dB)	66.7	71.3	76.6	81.1	86.3	91.3

The criterion level is: 0.324V

The **Usage Time** is 8 hours for any sound pressures less than 82dB. The values are given for 0.9V (2.5hr) and 1.5V (1 hr). As a communications device the user will not be exposed to continuous audio. Typically, the maximum output drive voltage for the communications device this will be attached (Sepura SC20) to is: 2.0V

EU type and examination for ongoing conformity

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