



Operating Manual
left/RIGHT
Wireless Hearing Protection



Order No.: PM260/00

This product incorporates *Bluetooth*[®] wireless technology.

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1 Product

The MSA left/RIGHT electronic product range is designed to improve safety and working conditions in noisy environments.

The left/RIGHT Bluetooth Wireless Headset enables wireless communication, for instance with mobile phones. These operating instruction covers to different products - left/RIGHT Wireless World, left/RIGHT Wireless World Dual and left/RIGHT Wireless World CutOff ATEX. The following table lists the functions of each version.

	left/RIGHT Wireless World	left/RIGHT Wireless World Dual	left/RIGHT Wireless World CutOff ATEX
Bluetooth wireless technology	X	X	X
Noise attenuation		X	X
AUX audio input	X	X	
FM Radio		X	



WARNING!

This operating description only describes the functions of the product, it does not replace the operating manual.

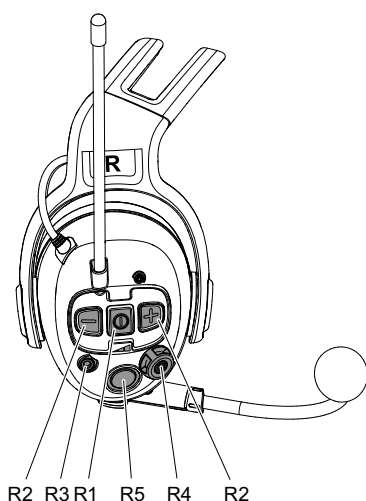
It is imperative that the operating manual be read and observed when using the product.

- ▶ Refer to the main manual (P/N PM 259) for safety instructions and the information for correct use and maintenance of the product.

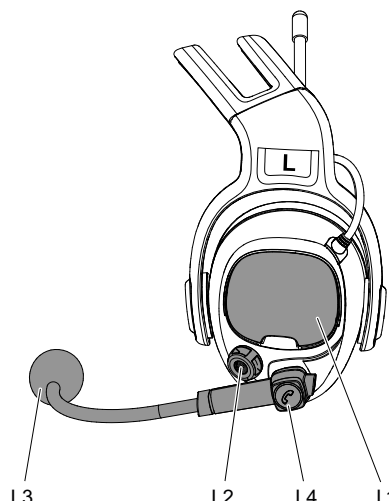
2 Use

2.1 Overview

Right cup (R)



Left cup (L)



- R1 On/off/mode button
- R2 Level selection buttons
- R3 AUX audio input socket (3.5-mm stereo)
- R4 Ambient sound microphone
- R5 Function button

- L1 Battery cover
- L2 Ambient sound microphone
- L3 Bluetooth wireless technology boom microphone
- L4 Bluetooth connection button
- LED **BLUE**: State of Bluetooth Wireless Connection
RED: Headset state

2.2 Switching ON/OFF

- (1) To switch the headset on, press the **Ⓜ** button (R1) for about 2 seconds.
A confirmation beep sounds.
The voice message «Bluetooth on» sounds.
- (2) To switch off, press and hold the **Ⓜ** button (R1) for about 2 seconds.
A confirmation beep sounds.

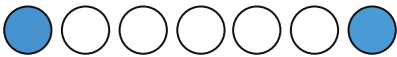

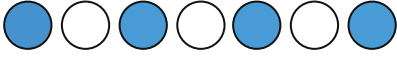

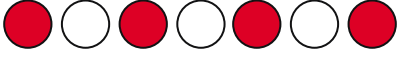
2.3 Indicators

The headset provides three different signals to confirm user actions:

- LED (blue/red)
- Beeps
- Voice messages

LED

The LED can flash in blue or red.

Headset state	LED description	LED sequence
Headset on or No Bluetooth connection	Blue flash 100 ms duration, every 6s	
Pairing mode	Blue and red flash alternating	
Bluetooth connection or Ongoing call	Blue flash every 2s	
Incoming call (via Blue- tooth connection)	Blue flashes twice every 2s	
Low battery	Red flash 100ms, every 2s	

Beeps

The headset has three different beeps:

- Short beep: confirms a button press
- Long beep: when switching headset on and off
- Special beep (Short deep beep): sounds at the highest and lowest ends of a range of possible selections

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Voice Messages

Voice messages confirm user actions, explain device actions and give warnings.

The language of the voice messages can be changed:

- (1) Enter language selection for the voice messages by simultaneously pressing and holding the + and the - button (R2) on the right cup.

The voice message «Language selection» sounds.

- (2) Select the preferred language with the + or - button (R2) on the right cup.

The voice message states the native name of the chosen language.

The languages are listed in the following order:

- English
- Swedish (Svenska)
- French (Français)
- German (Deutsch)
- Spanish (Español)
- Italian (Italiano)
- Dutch (Nederlands)
- Finnish (Suomi)
- Danish (Dansk)
- Norwegian (Norsk)
- Chinese (中文)
- Brazilian Portuguese (Português)
- Arabic (العربية)
- Polish (Polski)
- Russian (Русский язык)
- Czech (Čeština)
- Slovak (Slovenský)
- Hungarian (Magyar)
- Romanian (Română)
- Bulgarian (Български)
- Slovenian (Slovenščina)
- Serbian (Srpski)
- Croatian (Hrvatski)

- (3) Save the chosen language with a long press of the **ⓘ** button (R1).

The voice message «Language selected» sounds.

- (4) To deactivate voice messages, choose «No messages» in the menu.

3 Bluetooth Technology

3.1 Bluetooth Wireless Connection

To be discovered by other Bluetooth wireless technology enabled devices, the headset needs to be in Discovery mode.

When the headset is switched on, it stays in Discovery mode for 15 min. If no paired device can be found during that time, Bluetooth connection is switched off.

3.2 Pairing

To connect the headset via Bluetooth wireless technology to other devices, it is necessary to pair the headset and the device once.

- (1) Press and hold **J** button (L4) for several seconds.

A confirmation beep sounds.

The voice message «Pairing Bluetooth» sounds.

LED flashes, alternating between blue and red.

- (2) Switch on the device to pair (for example a mobile phone) and search for Bluetooth wireless technology enabled devices.

a) If the device asks for a password, enter *0000*.

- (3) When the device has found the headset, «MSA left/RIGHT-XXXXXX» (See label on headset for actual product number) will be displayed.

Select this entry.

The voice message «Bluetooth connected» sounds.

The blue LED flashes every 2 seconds.

The device and the headset are now paired and ready to manage calls or listen to music.



The pairing information is saved, the paired device will reconnect automatically to the headset when both are switched on and within accessible distance.

The headset can be paired with up to 3 devices. The headset will automatically try to connect to the most recently connected device first.

3.3 Managing Calls via Bluetooth Wireless Technology

- (1) Make sure the headset is connected to the mobile phone via Bluetooth wireless technology.

Outgoing Call

- (1) Wearing the headset, call the number as usual with the number pad of the mobile phone.
- (2) Position the microphone (L3) close to the mouth to ensure that the noise compensation works.

Incoming Call

When the connected mobile phone receives an incoming call, a ring tone can be heard in the headset. (This is independent from the audio profile and ring tone of the mobile phone.)

The blue LED flashes twice every 2s.

- (1) Answer the call by briefly pressing the **J** button (L4).

Answering a call disables ambient sound.

*To hear both the phone conversation and ambient sound, briefly press the **O** button (R5).*

- (2) End a call with a short press on the **J** button (L4).

The voice message «Call finished» sounds.

- (3) Reject a call with a long press and hold of the **J** button (L4).

The voice message «Call rejected» sounds.

During a Call

- (1) Adjust the volume by pressing the + or - button (R2) on the right cup.
- (2) Mute and unmute the microphone with a long press on the J button (L4).
The voice message «Microphone off» or "Microphone on" sounds.

Disconnection

If the headset and the connected device have been accidentally disconnected, the voice message "Bluetooth disconnected" sounds.

When Bluetooth is disconnected, the user cannot receive any calls.



Reset the device (see section 8 "Reset") if the Bluetooth connection does not work properly.

Priority

A Bluetooth connection has priority over FM radio, so any transmission via Bluetooth wireless technology (for example incoming calls, streaming music) switches off FM radio. After the transmission is over, FM radio is switched back on automatically.

4 AUX Audio Input

The device has a 3.5-mm stereo socket (R3), for connecting an external audio source.

Examples for possible audio sources:

- communication radio
- hunting radio
- mobile phone
- CD player
- radio

AUX audio input is activated when the audio input jack is plugged in. The voice message "Audio input jack on" sounds.

The volume can only be adjusted on the connected device.

Priority

The AUX audio input is transmitted at the highest priority.

Connecting the AUX audio input jack shuts down FM radio and stops streaming via Bluetooth wireless technology.

Streaming is not stopped if there is an ongoing mobile conversation. As soon as the AUX audio input jack is disconnected, the previous audio input is switched on again automatically.

5 FM Radio**Switching ON/OFF**

- (1) Press the O button (R5) twice to turn on FM radio.
The voice message "FM Radio on" sounds.
- (2) Press the O button (R5) twice to turn off FM radio.
The voice message "FM Radio off" sounds.

Adjusting the volume

- (1) Adjust the volume with the + or - button (R2) on the right cup.

Changing Frequencies

- (1) To get to frequency mode, press the **⓪** button (R1) on the right cup.
The voice message "Frequency mode" sounds.
- (2) Change the frequency with the **+** or **-** button (R2) on the right cup.
*When the highest frequency has been reached, pressing the **+** button continues the search on the lowest frequency (Loop function).*
- (3) To move immediately to the highest frequency (108 MHz) press and hold the **+** button (R2).
- (4) To move immediately to the lowest frequency (88 MHz) press and hold the **-** button (R2).
- (5) To leave frequency mode, press the **⓪** button (R1) or wait 10 seconds.
The voice message "Volume mode" sounds.
The last frequency is saved when the headset is switched off.

Priority

FM radio has the lowest priority, it is switched off when the AUX audio input jack is connected or when a transmission via Bluetooth wireless technology is received. After the AUX audio input jack is disconnected or the transmission is over, FM radio is switched back on automatically

6 Ambient Sound Only

This function is intended for use in environments where there is a need to hear ambient sound, such as warning signals, face-to-face communication or traffic.

Ambient sound is captured by two externally mounted microphones (R4 and L2) and transferred by speakers inside the cup at a safe level. The sound is reproduced in stereo to preserve direction location.

- (1) Disconnect Bluetooth connection, unplug AUX audio input and turn off FM radio to hear only ambient sound.
The voice message "Ambient sound only" sounds.
- (2) Adjust the volume by pressing **+** or **-** buttons (R2) on the right cup.
At the highest and the lowest possible level, the special beep sounds.

6.1 Discussion Mode

All audio sources (AUX audio input, Bluetooth wireless connection or FM radio) can always quickly be muted to hear only ambient sound. This is called Discussion mode.

- (1) To enable Discussion mode, press the **○** button (R5).
Ambient sound at safe levels is transferred to the speakers.
- (2) To disable Discussion Mode, press the **○** button (R5) again.

7 Ambient Sound Level Selection

This is used to balance between the audio source (AUX audio input, Bluetooth wireless connection or FM radio) and ambient sound. This mode cannot be used during Discussion mode.

- (1) To select Ambient sound level selection, press and hold the \bigcirc button (R5).

The voice message "Ambient sound level selection" sounds.

- (2) Select the preferred balance level between audio source and ambient sound with the + and - button (R2) on the right cup.

The following voice messages sound depending on the level selected:

- High ambient sound level
- Central ambient sound level
- Low ambient sound level
- Caution for safety, no ambient sound

- (3) Press and hold the \bigcirc button (R5) to save the selection.

The voice message "Parameter saved" sounds.

8 Reset

To reset the headset to the default factory settings:

- (1) Reset the headset to factory settings with a long simultaneous press of three buttons, the ⓪ button (R1) and both the + and - button (R2) on the right cup.

The voice message «Reset mode» sounds.

The headset is set back to factory settings and switched off.

9 Software Update

The latest software for the device can be found at www.msasafety.com with the appropriate installation instructions.

10 Batteries

The product should only be fitted with the batteries listed in the main manual (P/N PM259).

Low Battery Warning

Low battery level is indicated by the voice message «Low battery». The headset functions will not work optimally when the battery is low. The battery warning is repeated until the batteries are completely discharged.

For local MSA contacts, please visit us at [MSAafety.com](https://www.MSAafety.com)

*Because every life has a **purpose...***