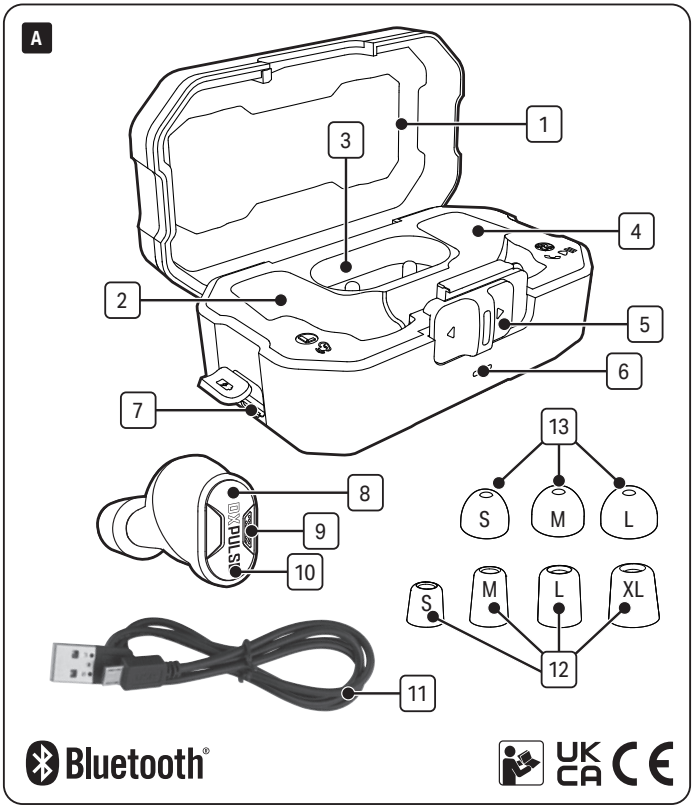
DXPULSE

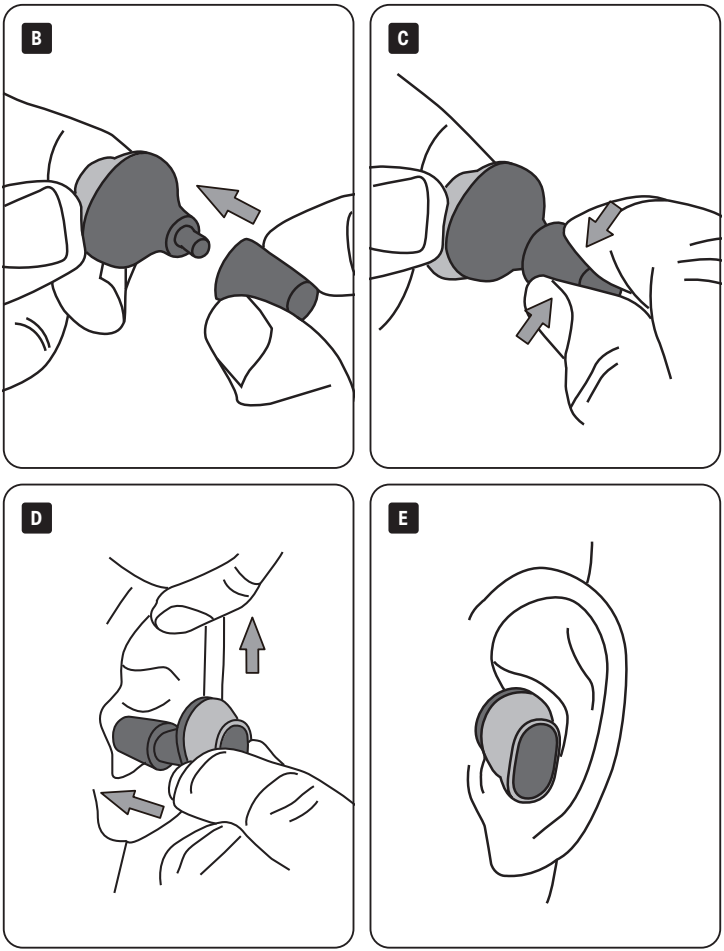
EN
Original Instructions
Version 1 – 01/2026

NOISE ISOLATING
EARBUDS

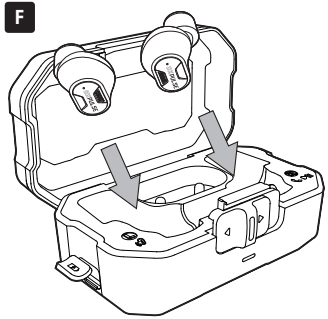
31781

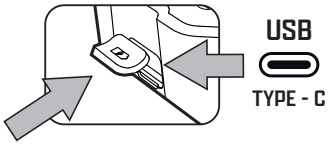
EN352 CE2797

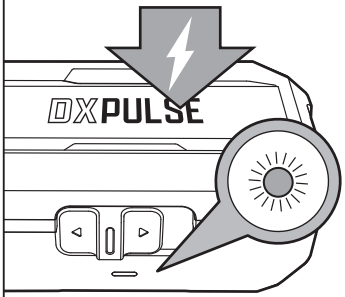


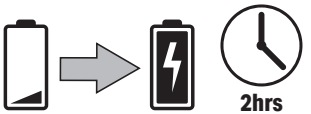

B
C
D
E

F

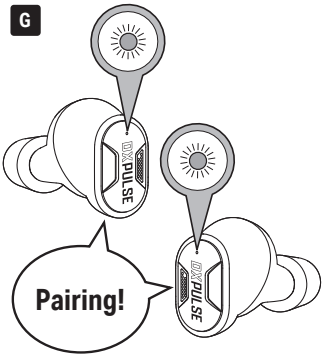



USB
TYPE - C

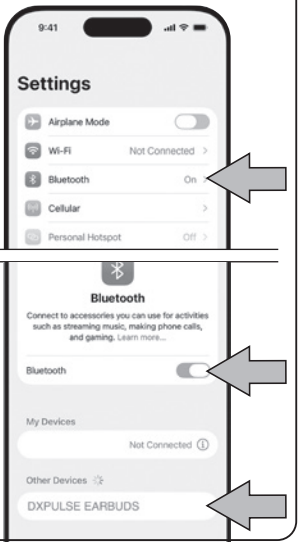

DXPULSE


2hrs

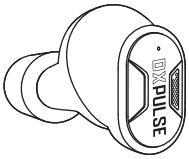
G


DXPULSE
DXPULSE
Pairing!

H


9:41
Settings
Airplane Mode
Wi-Fi
Not Connected
Bluetooth
On
Cellular
Personal Hotspot
Off
Bluetooth
Connect to accessories you can use for activities such as streaming music, making phone calls, and gaming. Learn more...
Bluetooth
My Devices
Not Connected
Other Devices
DXPULSE EARBUDS

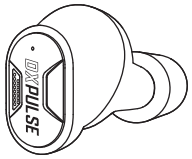
I



L

Awareness Mode

x1 x2



R

Music & Phone Call

x1 x1 x2

x1 x2 x3

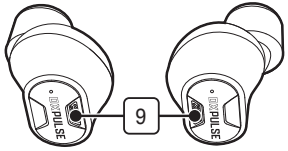
J

Situational Awareness Mode

L

K

Built-in ENC Microphone



EN 1. Intended Use

These wireless noise isolating earbuds are designed to reduce damage to your hearing in noisy environments. Blocking out much of the surrounding sound to allow listening to music or talking on the phone with less interruption.

The product has been tested and meets the EU standards: EN352-2:2020, EN352-7:2020, EN352-9:2020 and EN352-10:2020 requirements as a hearing protector. Full testing details are shown in the Noise attenuation section in the specification table.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before using this product and retain it for future use. **ALWAYS** use the latest version of the manual.

Please visit **drapertools.com/manuals** for the latest version.

EN 2. Specification

Stock No.	**31795**
*Bluetooth®	Version 5.3 2402-2480MHz
Bluetooth distance	Up to 10M
Noise level (SNR single number rating)	31dB
Rechargeable Batteries	Non replaceable
Earbuds	50mAh Li-ion
Charging case	800mAh Li-ion
Battery life (fully charged)	
Bluetooth mode	8hrs
Awareness mode	5hrs
Charging case	28hrs
Charging Voltage	5V Max
Charging cable	Type-C
Charging Time (approx.)	
USB cable	2hrs
Protection rating	**IP65**
EU Type CE Approved	BSI Netherlands CE 2797
Storage Temperature	-20°C to 50°C
Date of obsolescence	3 years (from date of purchase)

2. Specification

Ear tip sizes (nominal diameter) supplied	Small 8 – 10mm Medium 8 – 11mm Large 9 – 12mm Extra large 10 – 13mm

Noise Attenuation (SNR,H, M and L values)

Level	SNR	H	M	L
Mean (dB)	34.3	35	32.4	29.2
Standard Deviation (dB)	3.1	3.8	3.4	2.9
Value (dB)	31	31	29	26

Attenuation Data SNR 31

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
MF (dB)	22.2	26.8	27.3	30.5	35.7	34.8	35.3	47.2
SF (dB)	4.8	5.0	2.4	4.3	6.3	4.7	4.0	4.8
APV	17.4	21.8	24.9	26.2	29.4	30.1	31.3	42.4

Bluetooth®

Bluetooth® (HFP)

Criterion input signal	SPL below 82dB (A)
Sound power level at maximum input signal	52.3dB(A) at -14dBFSt
Usage time for maximum input signal	8 hours

Relationship between sound output level and input signal level

SPL dB(A)	40	45	50	55	60
Input signal level (dBFS)	-26.6	-21.3	-16.3	-	-

Bluetooth® (A2DP)

Maximum sound level	70.3dB (A) at -10 dBFS

Criterion Levels

	H	M	L
Criterion level dB (A)	115	114	109

***** Bluetooth® word mark and logos are registered trademarks owned by Bluetooth® SIG, Inc.

EN 3. Health and Safety Information

- **DO NOT** use in explosive atmospheres.
- **DO NOT** use a charger rated above 5 volts.
- **DO NOT** use in environments where the user needs to be fully aware of their surroundings:
  - **DO NOT** use while driving a car or riding a motorcycle.
  - **DO NOT** use when riding a bicycle outside.
  - The user is responsible for ensuring the earbuds are **ONLY** used in safe environments.
- Take care when removing the earbuds. Sudden or rapid removal of the earbuds may cause damage to the eardrum.
- The output level of the hearing protector's audio circuit may exceed the exposure limit.
- The wearer must follow the recommendations supplied to avoid impairing the hearing protection:
  - Ensure fitted, adjusted and maintained as recommended.
  - **ALWAYS** wear the earbuds in noisy surroundings.
  - Regularly inspect for wear and damage.
- The earbuds provide an audio signal sound pressure limitation, and the entertainment audio signal is limited to 82dB (A) effective to the ear. The audible warning signals at a specific workplace may be impaired while using the audio facility.

EN 4. Product Overview A

1. Charging case
2. Left earbud compartment
3. Spare foam tip holders
4. Right earbud compartment
5. Charging case latch
6. Charging indicator lights
7. USB- C charging port
8. Earbud indicator light
9. Built in microphone
10. Manual button
11. USB-C charging cable
12. 4 X Spare memory foam ear tips (S, M. L, XL)
13. 3 X Silicone ear tips (S,M,L) - **NOT** tested for noise reduction

Please visit **drapertools.com** for our full DX range of accessories and consumables.

EN 5. Preparation

5.1 Earbuds Fitting B – E

- Select the correct size of ear tips (12) or (13) for your ear canals and fit to the earbuds.

ATTENTION! The silicone ear tips (13) have NOT been tested for noise reduction. They should only be used when hearing protection is NOT required.

- Check the markings on the earbuds before fitting.

  (L) - left (R) - right

5.2 Charging the Earbuds F

- Fully charge before first use.
- Place the earbuds in the case supplied to charge.
- Charge with the USB-C cable (11) supplied and only use a maximum 5 volt charger. **DO NOT** use a 'Turbo' or 'Quick' charger where voltage maybe 9 to 15 volts as it may damage the earbuds.

Charging Status	Light Colour	Solid/ Flashing
Charging	Red	Solid
0 – 33%	Red	Flashing
33 – 66%	Blue	Flashing
66 – 100%	Green	Flashing
Fully charged	Green	Solid

5.3 Power ON & OFF Modes

Automatic Power 'ON'	When removed from charging case **'Power ON'** voice prompt.
Automatic Power 'OFF'	**'Power OFF'** voice prompt when placed in charging case. **'Power OFF'** after 5minutes if not successfully paired with mobile device.
Manual Power 'ON'	**In Power 'OFF' mode.** Press left earbud manual button (10) for 2 seconds or until **'Power ON'** heard. Repeat with right earbud.
Manual Power 'OFF'	**In Power 'ON' mode** Press either earbud manual button (10) for 5seconds or until **'Power OFF '** heard.

5.4 Bluetooth Pairing G – H

1. The earbuds will automatically enter pairing mode when powered on.
2. "Pairing" will be heard and both earbud indicator lights will flash between red and blue.
3. Open the Bluetooth setting on your device – search and select '**DXPULSE EARBUDS**'.
   - Once connected "Connected" will be heard and the indicator lights will stop flashing.
4. The earbuds are now paired and will automatically reconnect to the paired device when in range.

Note: To disconnect the pairing, short press the earbuds button five times.

5.5 Earbud Button Functions

I

Button	Condition	Function	Operation
'L' (Left)	Power **'OFF'**	Turn **'ON'**	Long press x 2 secs
	Power **'ON'**	Turn **'OFF'**	Long press x 5 secs
	Awareness mode	Volume up	Short press x 1
		Volume down	Short press x 2
	Bluetooth connected	Disconnect from paired device	Short press x 5
		Voice Assistant	Short press x 3
'R' (Right)	Power **'OFF'**	Turn **'ON'**	Long press x 2 secs
	Power **'ON'**	Turn **'OFF'**	Long press x 5 secs
	Bluetooth connected	Disconnect from paired device	Short press x 5
	Music	Play	Short press x 1
		Pause	Short press x 1
		Previous track	Short press x 3
		Next track	Short press x 2
	Phone call	Pick up call	Short press x 1
		End call	Short press x 1
		Reject call	Short press x 2

5.6 Situational Awareness Mode

J

- These earbuds have situational awareness technology to offer level dependent protection to enhance your safety and situational awareness.
- The active microphone allows the user to hear the environmental sounds and conversations at a safe level.
- When the ambient noise exceeds 85dB the microphone will immediately respond and attenuate to a safe level.
- There are four levels of ambient volume (0,1,2, 3) using the left earbud. A voice prompt will be heard when adjusting the volume.

5.7 Noise Isolating Microphone

K

- The noise cancellation technology on the phone call microphone will block background noise from products such as mower, drill, vacuum and similar products for clear calls in loud environment.

5.8 Factory Reset

- Factory reset the earbuds if you experience any issues with powering on/ off or pairing.

1. Press and hold both earbud manual buttons for more than 10 seconds.
2. The earbuds indicator lights will flash blue and red 3 times.
3. The earbuds will need to be paired again.

EN 6. Maintenance, Storage and Disposal

- Regularly check the ear tips for wear, cracking or other damage. Replace if damaged.
- The memory foam tips are disposable. Replace every 3 months or when they become soiled.
- Clean the ear tips regularly by gently wiping with a mild soap and a clean damp cloth.
- **DO NOT** use abrasive cleaning solvents.
- If the earbuds get wet, stop using and allow them to dry completely before reusing.
- Store in a dry and clean location.
- The earbuds and charging case should be fully charged before long term storage.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.

- **DO NOT** incinerate.
- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.

EN 7. Warranty

12 months from date of purchase – Visit **drapertools.com/warranty** for more information.

Notified Bodies

Certified by

PZT GmbH
Bismarckstrasse 264B
D-26389 Wilhelmshaven
Deutschland – Germany

Notified Body Number: 1974

Supervised by

BSI Netherlands
John. M. Keynesplein 9
1066 EP Amsterdam
The Netherlands

Notified Body Number: 2797

CE 2797

Hereby, Draper Tools declares that the PPE [DXPULSE Nosie Isolating Earbuds 31781] are in compliance with Regulation (EU) 2016/425 and RED Directive 2014/53/EU, EMC Directive 2014/30/EU. The full text of the EU declaration of conformity is available at **drapertools.com**.

Performance may deteriorate with battery usage.

This product may be adversely affected by certain chemical substances. **Refer to section 6** for further information.

The hearing protector is provided with level-dependent attenuation and safety-related audio input. Check for correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's advice for maintenance.

The hearing protector is equipped with an entertainment audio facility. The earbuds provide an audible signal sound pressure limitation, and the entertainment audio signal is limited to 82dB (A) effective to the ear. The audible warning signals at a specific workplace may be impaired while using the audio facility.

Contact Details

DX PULSE

Draper Tools
Hursley Road
Chandler's Ford
Eastleigh
Hampshire
SO53 1YF
UK

Draper Tools Europe B.V
Oude Graaf 8
6002 NL
Weert
Netherlands
eu.drapertools.com

Website: drapertools.com
Email: sales@drapertools.com
Product Helpline: +44 (0) 23 8049 4344
Telephone Sales Desk: +44 (0) 23 8049 4333
General Enquiries: +44 (0) 23 8026 6355

Please contact the Helpline for repair and servicing enquiries.

© DX PULSE Published by Draper Tools Limited