

# **RURoc®**



 **cardio® | SHOCKWAVE**

**INSTRUCTION MANUAL**

Ruroc ShockwaveMesh

**WARNING!****READ THIS MANUAL BEFORE USE**

1. The use of this device on public transportation may not be authorized by law. Please check your local laws and use this product only in private spaces.
2. If local law prohibits the use of headphones while riding, do not use. If you do not comply with this warning, Ruroc does not accept any liability.
3. Use of this product at a high volume for a long time may cause damage to your ears & hearing. Please keep the volume at an appropriate level.

**PRECAUTIONS OF BATTERY USE**

1. Please do not put discarded batteries together with general household garbage. In areas with laws and regulations on recycling & disposal of waste batteries, please follow these regulations.
2. Don't short-circuit the battery. A short circuit occurs when metal objects (keys, jewellery, wires, coins, or other conductors) accidentally connect the positive and negative electrodes of a battery. A short circuit can damage batteries or connectors and may cause significant property damage or personal injury. Please care for the batteries properly and do not leave them in your pocket, wallet or bag with metal objects.
3. Do not set the battery on fire or leave it in a hot place in order to avoid overheating, bursting or combustion.
4. Do not disassemble, weld or modify the battery. Do not puncture the battery with a hard object as the battery may leak, overheat, burst or catch fire.
5. Do not remove, squeeze, heat or burn the battery inside the product. It is strictly prohibited to use sharp objects, screwdrivers, or other devices to puncture or pry the battery open. The above operation may cause the battery to catch fire or burn.
6. If the battery electrolyte (fluid) enters the eye, it can lead to blindness. If you splash the battery electrolyte (fluid) into your eyes, do not rub your eyes with your hands. Rinse thoroughly with water immediately & seek medical attention. If the battery's electrolyte (fluid) sticks to the skin and clothes, wash them immediately with soapy water & clean water and seek medical attention if necessary.
7. Do not transfer batteries from other products. Do not use any damaged chargers or batteries. If the temperature of the battery is too high during use, charging or storage, or abnormal phenomena such as discolouration, deformation, bulging & leakage occur in the battery, please stop using & replace the battery to avoid safety problems.
8. The battery is not waterproof; do not use or charge the battery in the kitchen, bathroom or in high-temperature or humidity areas.
9. When charging, the temperature of the battery will rise. Therefore, please do not put the battery inside flammable objects (such as bedding, clothes, etc.) to avoid fire. Doing so may cause the battery to overheat or even explode.

## WARRANTY INFORMATION

Ruroc warrants all products to be free of defects in material or workmanship for a period of one year from the date of purchase, subject to the provisions below.

If a Ruroc product fails due to defects in craftsmanship or materials, within the warranty period, we will repair or replace the product free of charge provided that you promptly notify us of any defect (in any event within 7 days) and you immediately cease to use the product in question. Please be aware that this warranty is limited to the original purchaser only.

For detailed information please see the guideline below and/or the product specification following the product.

If you have any questions regarding our products or the above warranty, please feel free to contact our service centre [here](#).

1. Before you return any product, please go to [www.ruroc.com/returns](http://www.ruroc.com/returns) and follow the online returns process.
2. Ensure that the returned product is clean and dry before shipping. Dirty and/or foul-smelling helmets will be returned unprocessed or may delay the process with an additional surcharge.
3. Remember to include a note with your name, address, and phone number AND, make sure to include a short statement explaining the warranty problem.

Alternatively, you may also return your product to the store from where you originally purchased the product. Any Ruroc dealer is able to handle the warranty process on your behalf.

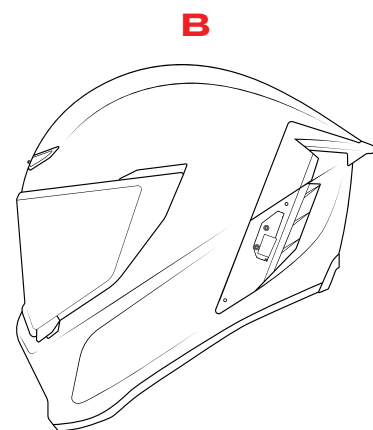
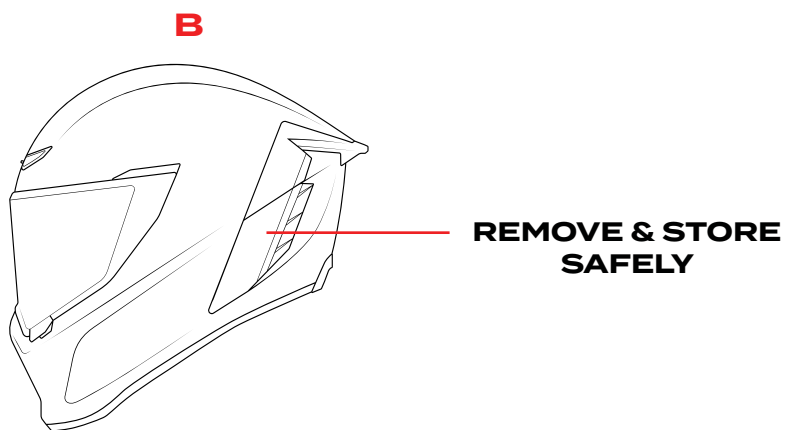
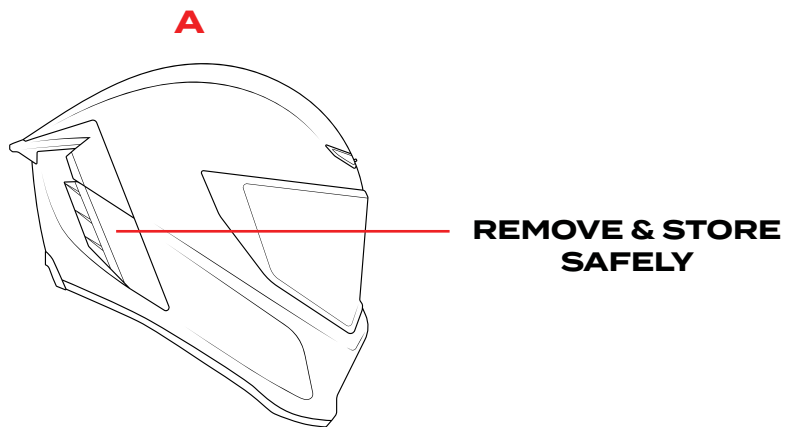
**NOTE:** Damage due to wear and tear, accident, misuse, or neglect, or if you fail to store or use a product other than in accordance with the instructions provided, or damage due to any repairs carried out by you or a third party not authorised by us, is not covered under warranty. Please contact our warranty department if you have any questions.

## SAFETY

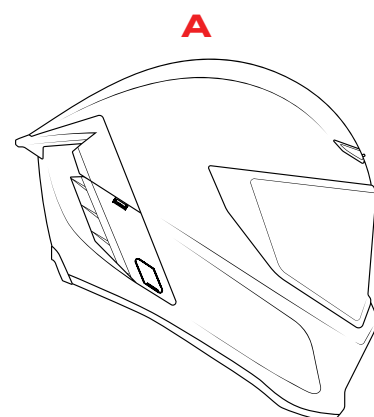
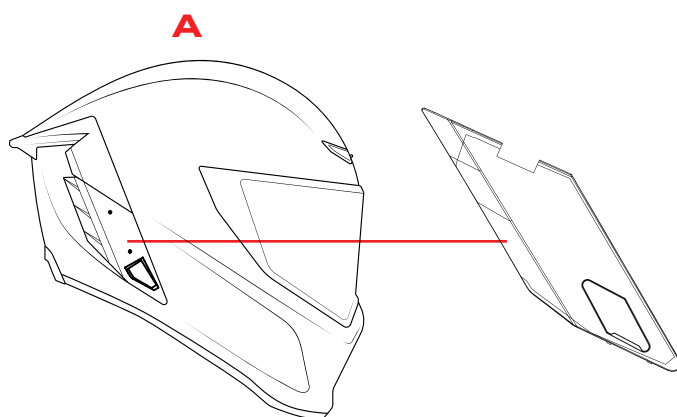
1. Please keep the products and all spare parts out of the reach of children and pets. Small parts can cause suffocation or other dangerous conditions.
2. Safe startup: be sure to use your product in a safe environment as electronic products may cause distraction or loss of concentration.
3. Pay attention to traffic safety. Please comply with all relevant laws and regulations of the place of use. Never use this product after drinking alcohol or using drugs, or when you are extremely tired.
4. Interference: any interference with a Wireless product can affect its performance. Shut down near medical devices: hospitals & health care facilities may have equipment that is sensitive to radio-frequency. Please effectively follow the rules & regulations of any medical institution & turn off the product when necessary.
5. The use of wireless devices on an aircraft can interfere with the aircraft, so please shut down the electronic device during flights.
6. Do not use this product near a gas station (service station) or where fuel or chemical agents are stored.
7. Accessories and batteries: Please only use accessories and batteries approved by Ruroc. Using other accessories and batteries may damage the product & cause harm.
8. Connecting to other devices: when connecting to other devices, please read the device's instructions carefully for detailed safety instructions & correct product operation. Do not connect incompatible products.
9. DO NOT charge the Shockwave unit whilst riding a motorcycle, the charging unit can cause injury/serious injury in the event of an accident.

## FITTING YOUR SHOCKWAVE

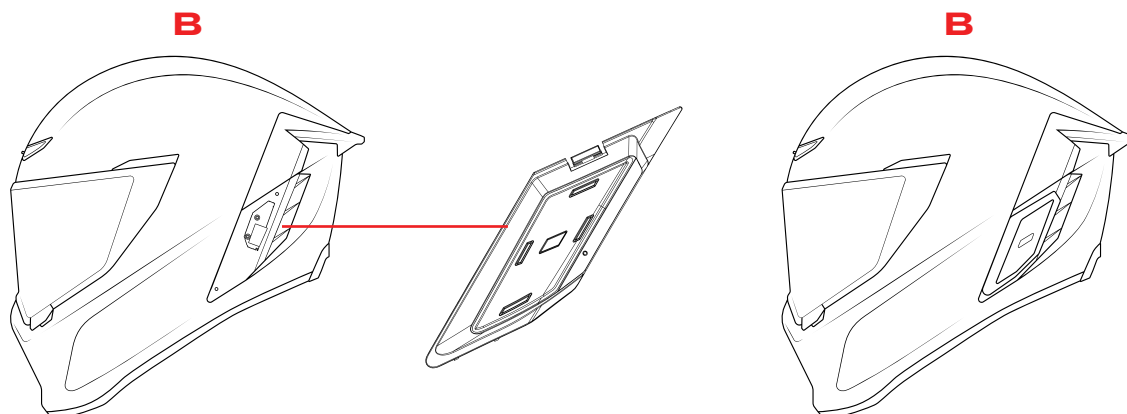
**1.** Remove the Snap-Fit Bluetooth cover on both sides of the helmet. Keep these covers stored securely should you wish to re-use them in the future.



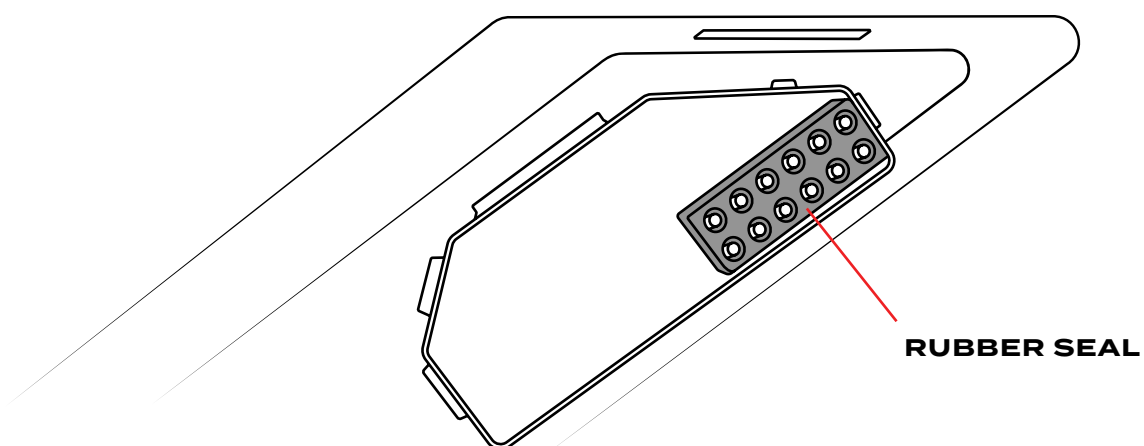
**2.** Insert Battery into side [A] by lining up the locators with slots in the battery cavity, press until it **'CLICKS'**.



**3.** Insert Shockwave into side [B] by lining up the locators with slots in the Shockwave cavity, and press until it '**CLICKS**'.



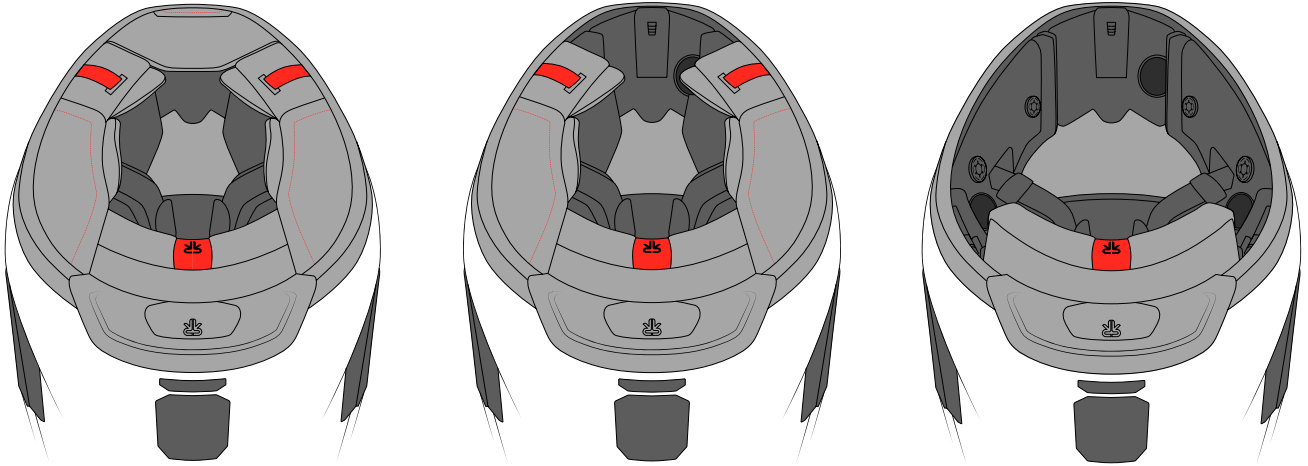
**NOTE:** Please ensure you **DO NOT REMOVE THE RUBBER SEAL**, removing this seal compromises the performance of the shockwaves water resistance and should be left on at all times.



**4.** More information about how to install your Shockwave can be found [here](#).

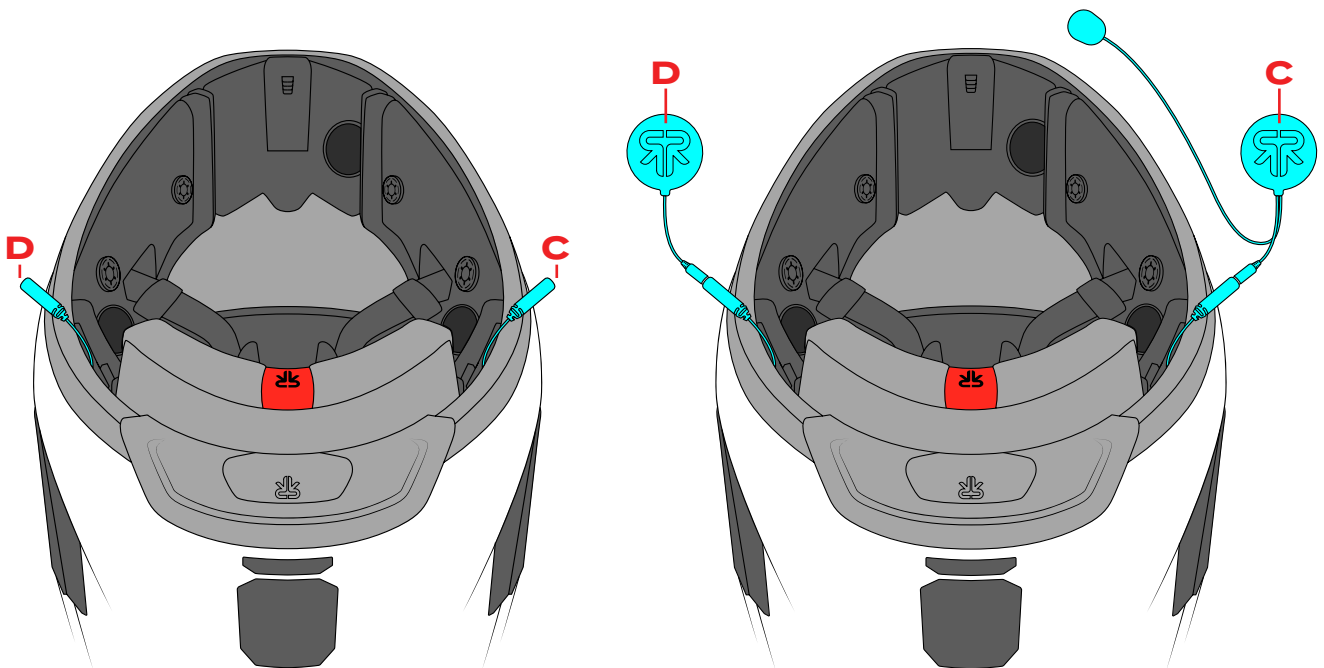
## CONNECTING YOUR SPEAKERS

1. Gently release the poppers on the cheek pads and remove them from the helmet.



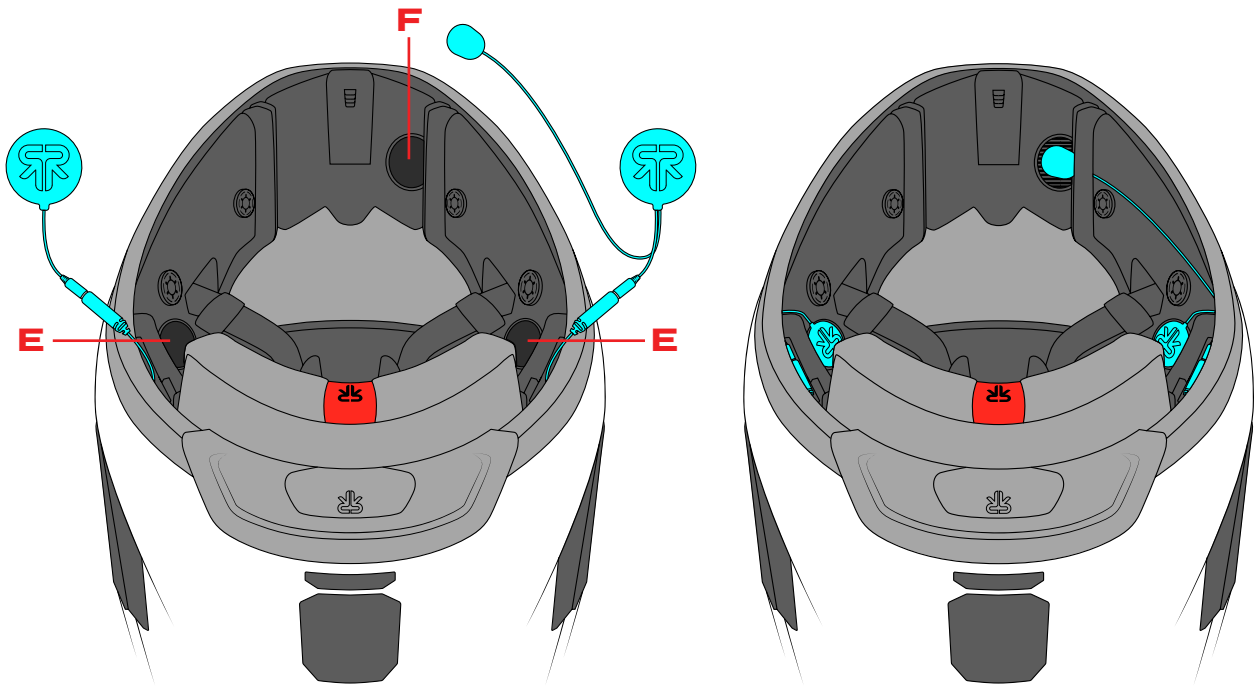
2. Plug the Mic+Speaker cable [C] into the AUX jack port on the helmets left side (right side of below diagrams).

3. Plug the Speaker-only cable [D] into the AUX jack port on the helmets right side (left side of below diagrams)

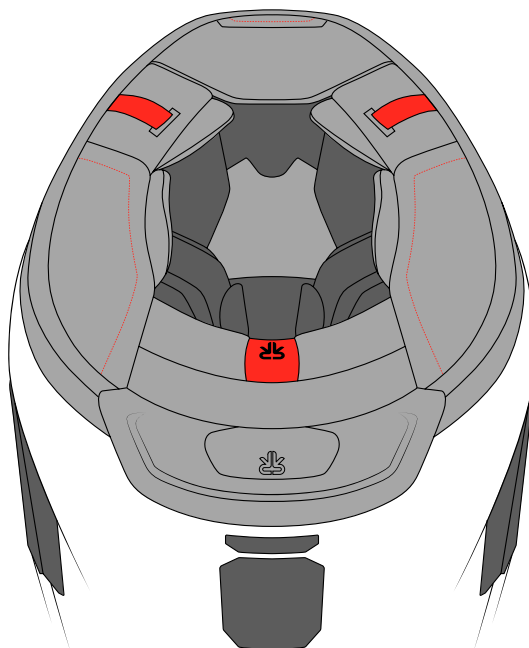


## FITTING YOUR SPEAKERS

1. Attach each of the Shockwave speakers where Velcro [E] is located (in the orientation shown in the diagram)
2. Attach the Shockwave Mic where Velcro [F] is located to the side of the chin vent (in the orientation shown in the diagram)

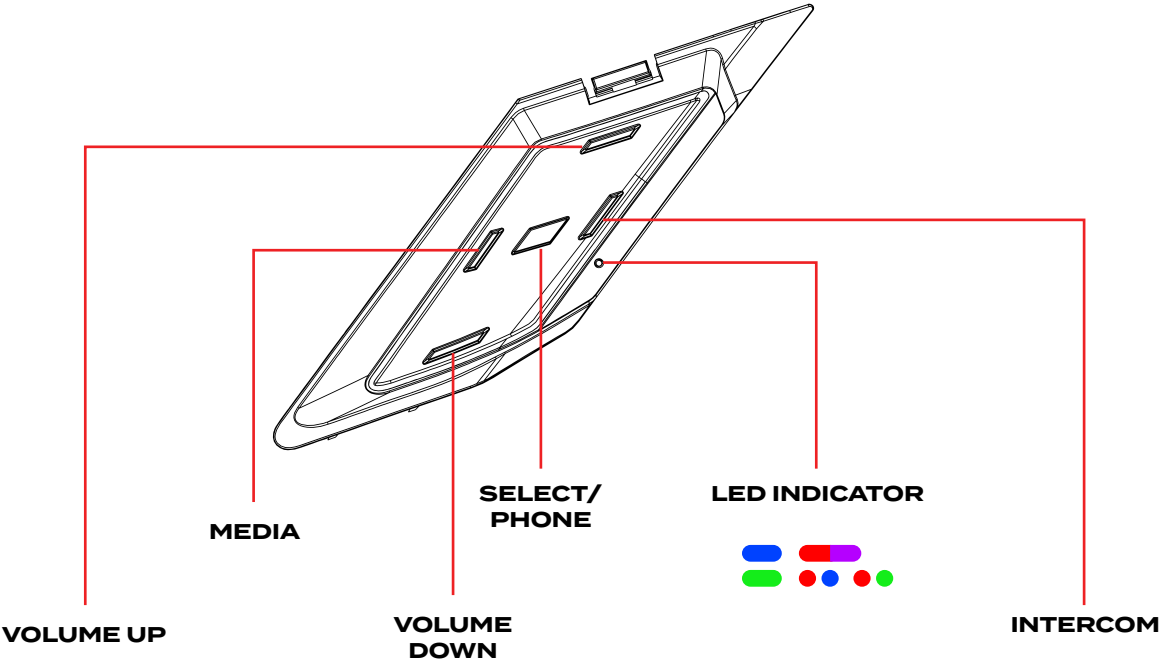


3. Carefully re-attach the cheek pads over the top of the speakers and Mic cable.

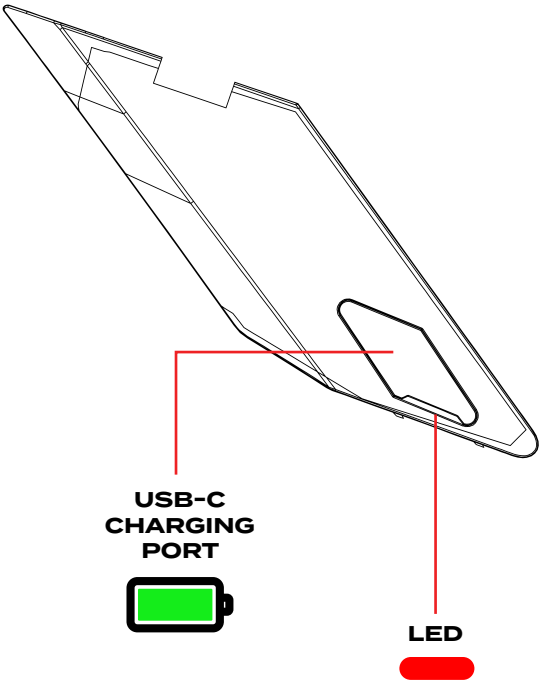


**SHOCKWAVE CONTROLS**

**SHOCKWAVE UNIT**

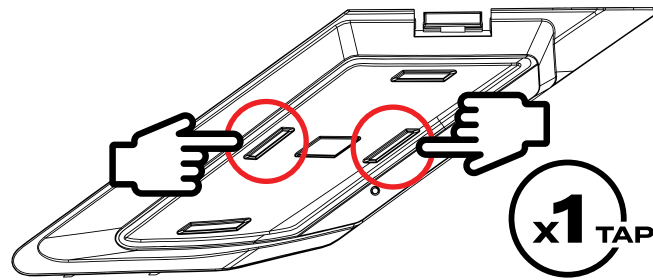


**BATTERY**



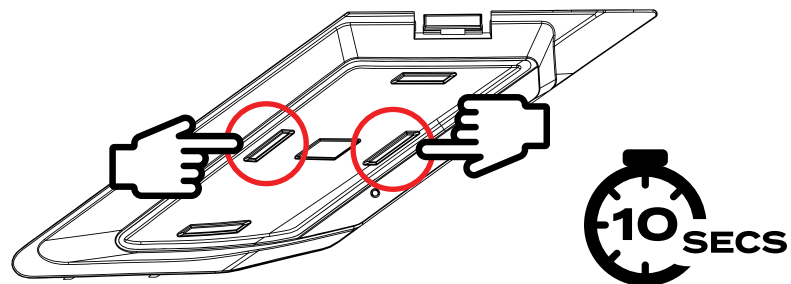


## ON/OFF



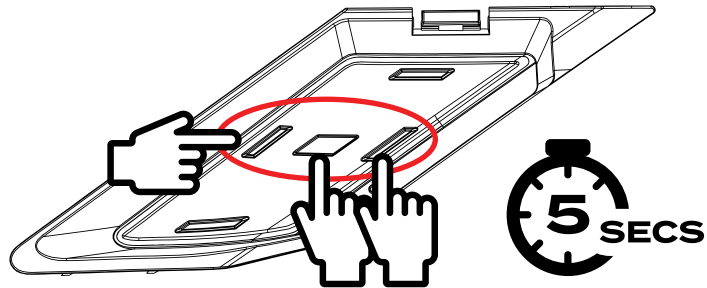
- ON:** Press both the **Intercom Button** and **Media Button** once to switch on the Shockwave system, you will hear a “Power On” message.
- OFF:** Press both the **Intercom Button** and **Media Button** once to switch off the Shockwave system, you will hear a “Power Off” message.

## REBOOT SHOCKWAVE



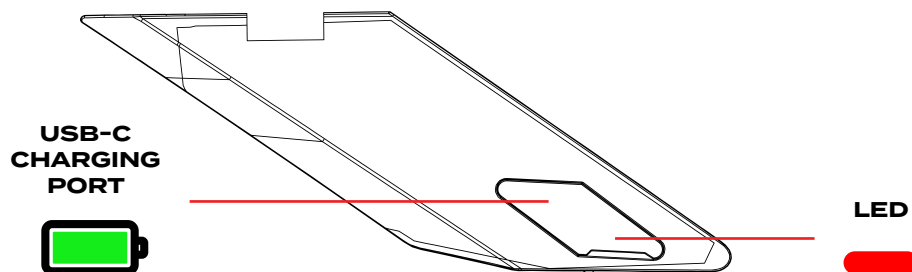
To Reboot the Shockwave hold the **Intercom Button** and **Media Button** for **10+ seconds**, a voice message of ‘Power Off’ will sound, and turn back on the system as normal.

## FACTORY RESET



To Factory Rest the Shockwave hold the **Intercom Button and Media Button and Select/Phone Button for 5+ seconds**, a voice message of 'Reset' will sound, and turn the system back on as normal.

## CHARGING



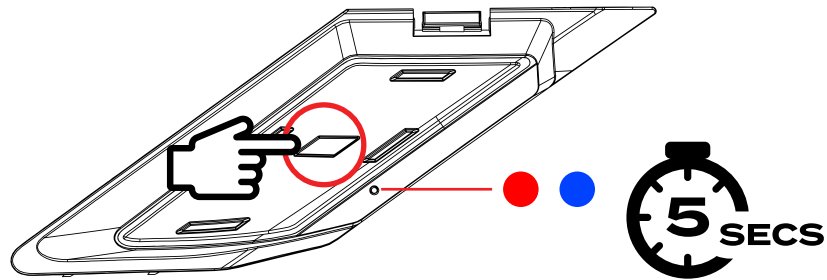
Plug the USB-C cable into the charging port, the LED will light up **RED** and stay static to indicate it is charging.

When the device is fully charged, the **RED** LED will flash to indicate that it is fully charged.

### NOTES:

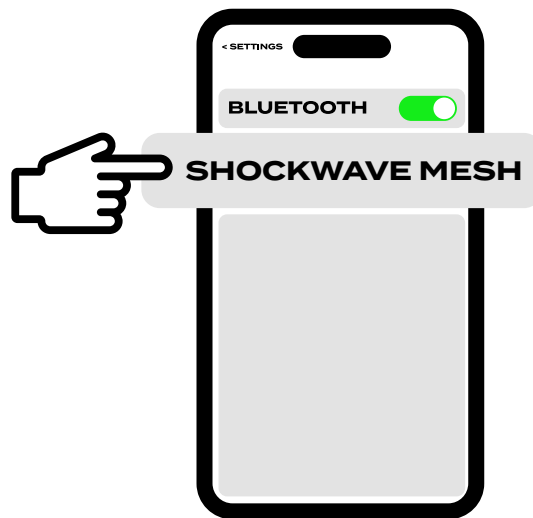
- Never charge the battery whilst it is installed in the helmet.
- Never let the battery completely discharge to 0% (10% Minimum), doing so may degrade the battery life.
- Average Charge Time = **1 hr 38 mins**

## BLUETOOTH CONNECTION



1. When connecting the Shockwave system to your device for the first time\*, hold the **SELECT/PHONE BUTTON\*\*** for **5 seconds** until you hear 'phone pairing'
2. The LED will flash **RED & BLUE** as the Shockwave looks for a connection to the device.

LED Red & Blue

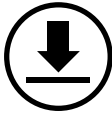


3. From your device, enter the Bluetooth® menu and select "Shockwave MESH".
4. You will hear the message 'Connected' to confirm the connection, and the BLUE LED will flash once periodically while the devices remain paired.

### NOTES:

- \*Your Shockwave will automatically connect to a previously connected device (within range) when powered on.
- \*\*If the unit is already on, pressing the SELECT/PHONE BUTTON for 5 seconds will put the unit into pairing mode

CARDO CONNECT APP



Download | Herunterladen |  
Télécharger | Downloaden



Register | Registrieren |  
S'enregistrer | Registreren



Choose Language | Sprache Auswählen |  
Choisir Langue | Taal Kiezen

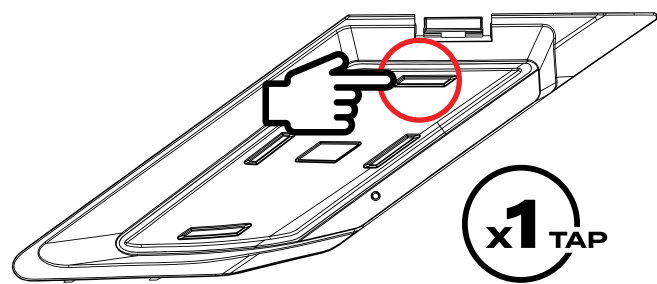


Update Software | Software Aktualisieren |  
Actualisation Du Logiciel | Software Bijwerken

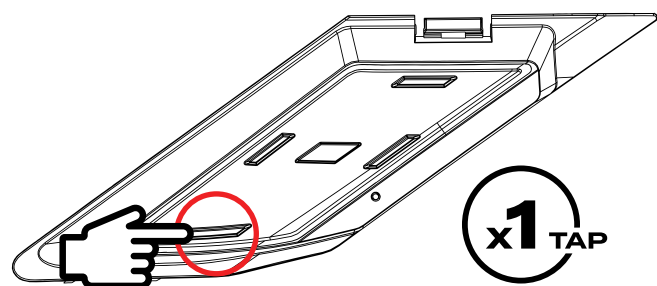


**GENERAL**

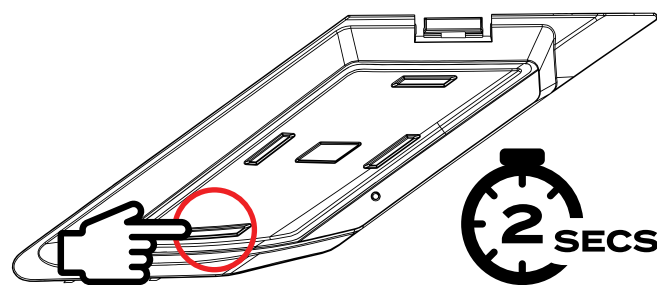
**VOLUME UP**



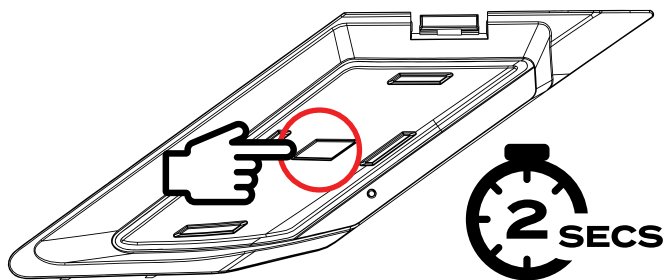
**VOLUME DOWN**



**MUTE/UNMUTE MICROPHONE**

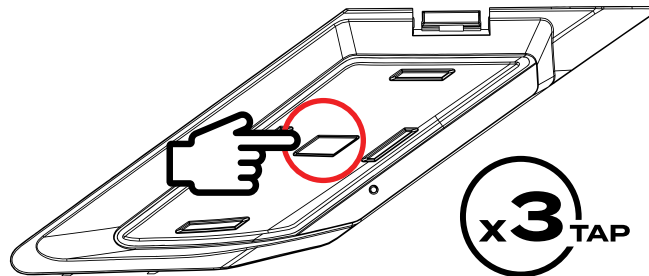


## VOICE ASSISTANT



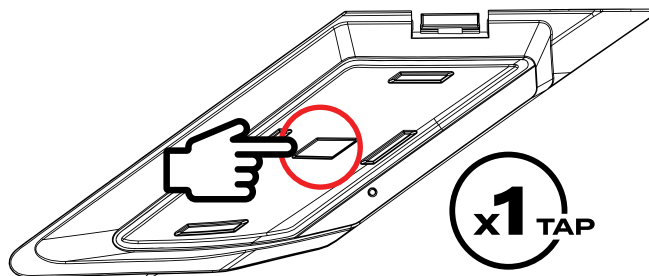
## PAIRING

### PHONE 2 PAIRING



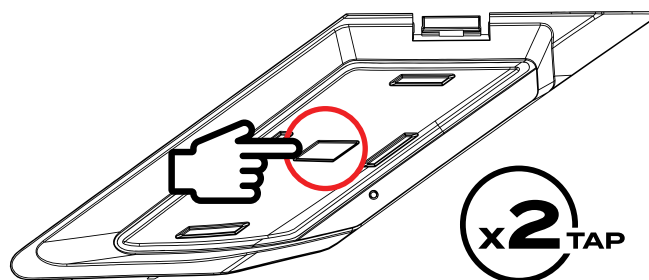
**\*PHONE PAIRING MODE MUST BE INITIATED\***

### GPS PAIRING



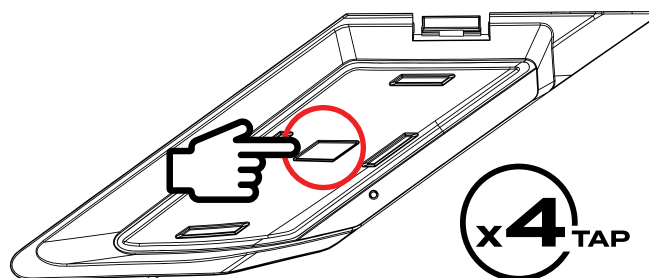
**\*PHONE PAIRING MODE MUST BE INITIATED\***

### BIKE PAIRING



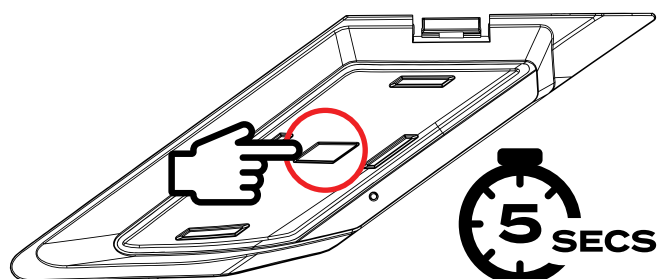
**\*PHONE PAIRING MODE MUST BE INITIATED\***

## CYCLE BACK TO PHONE PAIRING



**\*PHONE PAIRING MODE MUST BE INITIATED\***

## STOP DEVICE PAIRING

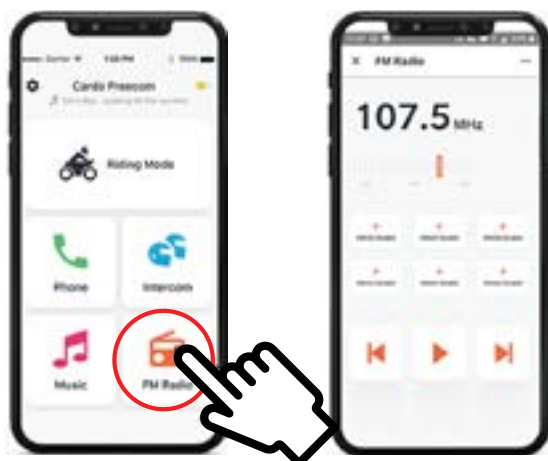




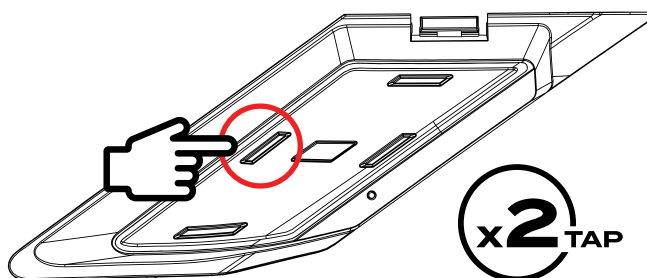
## RADIO



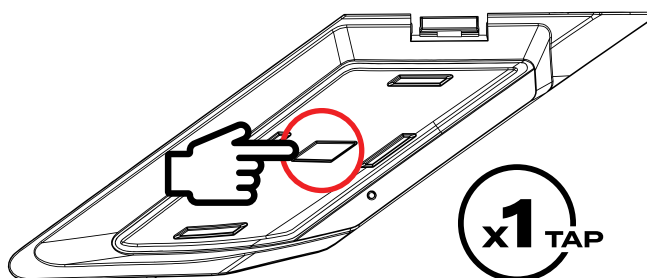
Set Presets | Voreinstellungen Festlegen |  
Definir Les Preregles | Voorkeuzezenders Instellen



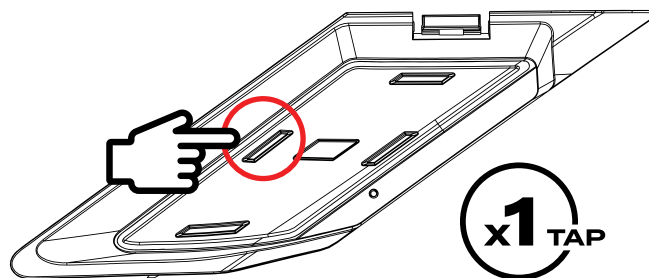
## RADIO ON



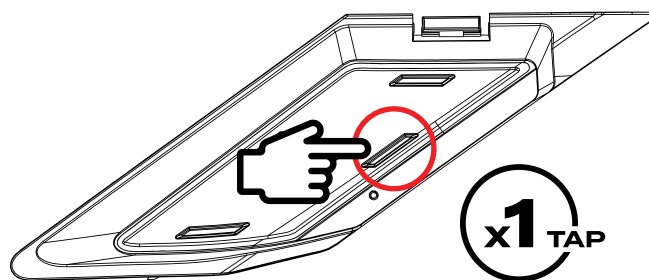
## RADIO OFF



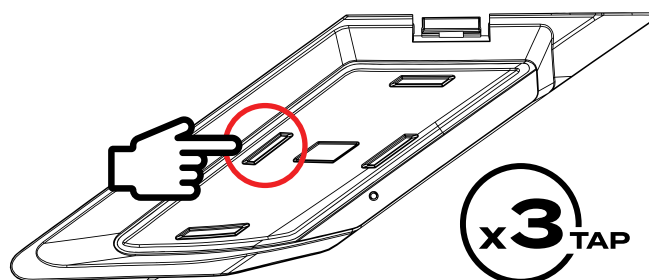
## NEXT PRESET



## PREVIOUS PRESET

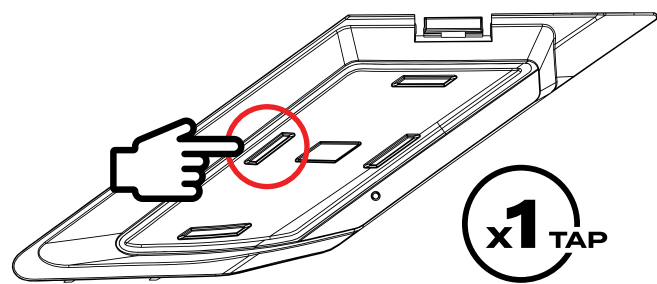


## AUTO-TUNE x6 PRESETS

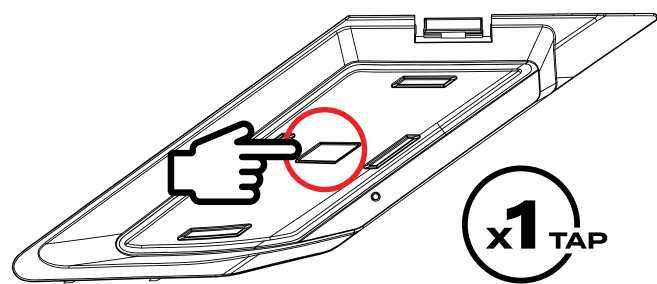


**MUSIC**

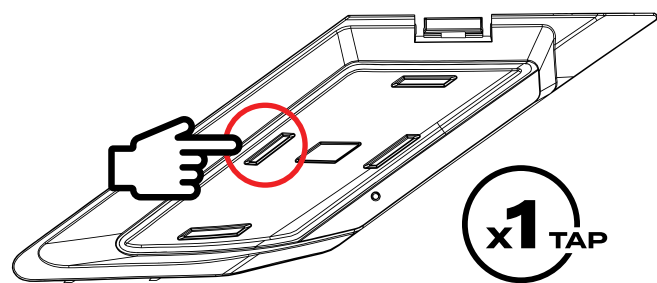
**MUSIC ON**



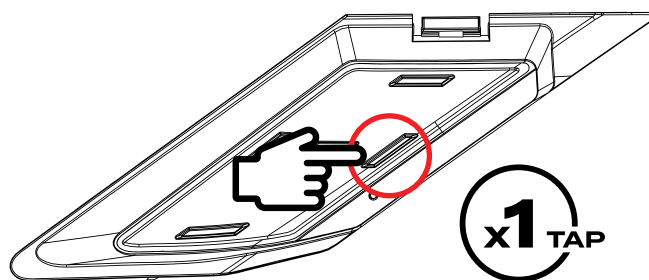
**MUSIC OFF/PAUSE**



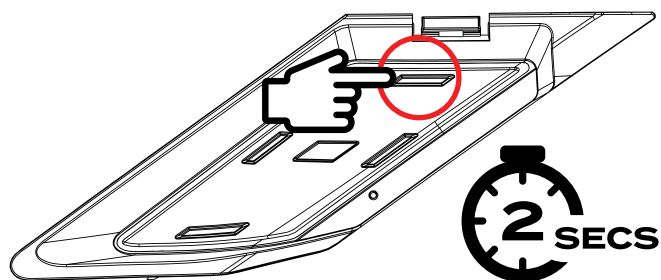
**NEXT TRACK**



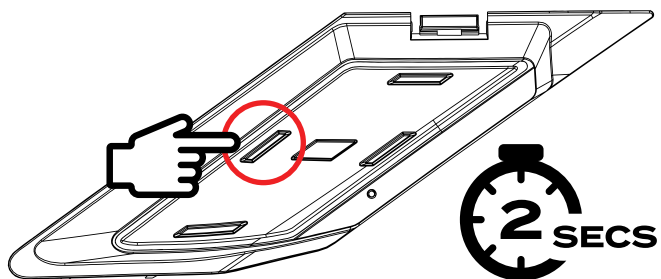
## PREVIOUS TRACK



## START/STOP MUSIC SHARING

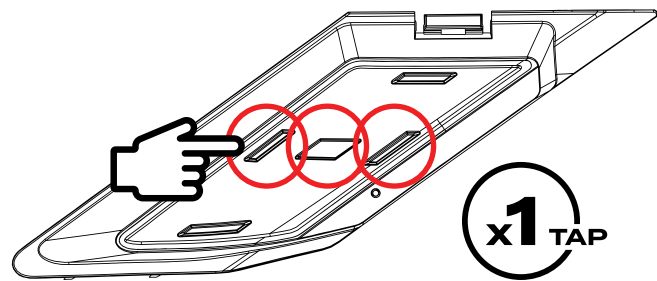


## SWITCH SOURCE RADIO/MUSIC



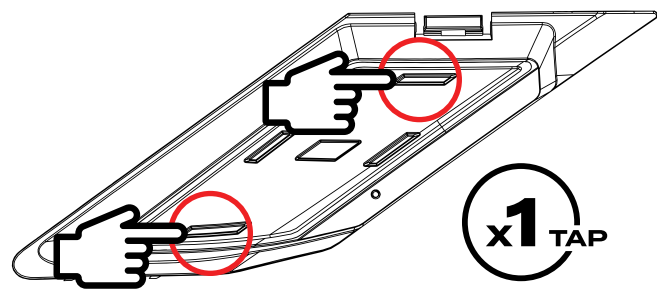
**PHONE**

**ANSWER CALL**



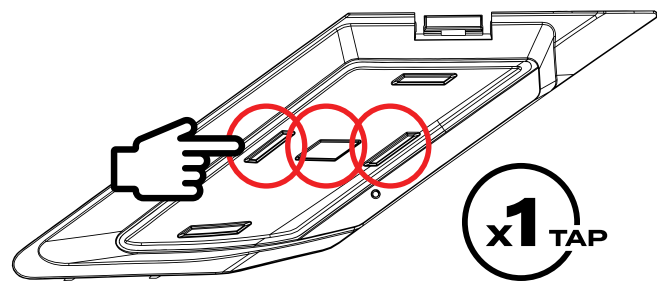
ANY OF THESE 3 BUTTONS

**IGNORE CALL**



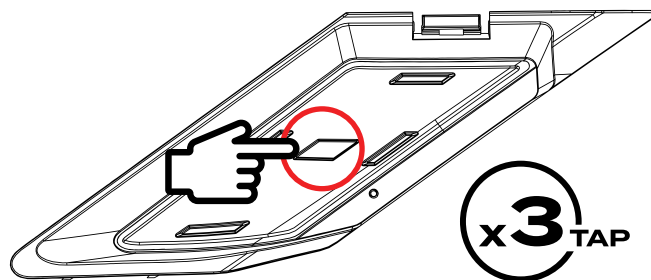
EITHER OF THESE 2 BUTTONS

**END CALL**

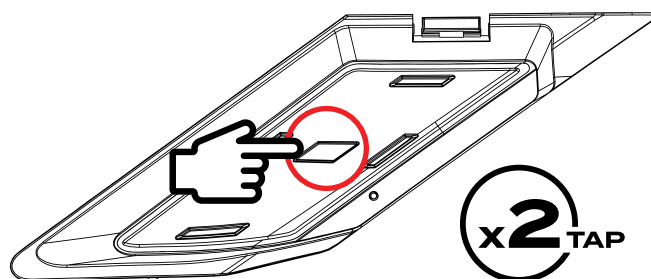


ANY OF THESE 3 BUTTONS

## REDIAL LAST NUMBER

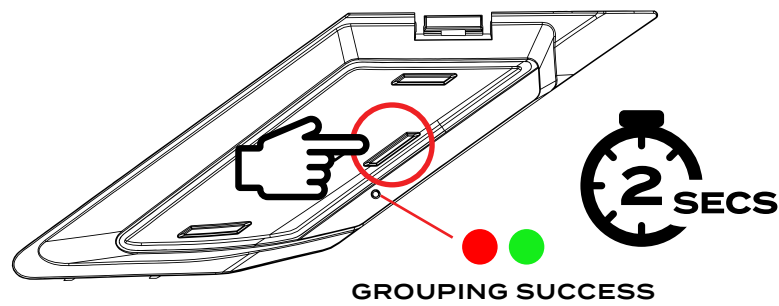


## SPEED DIAL

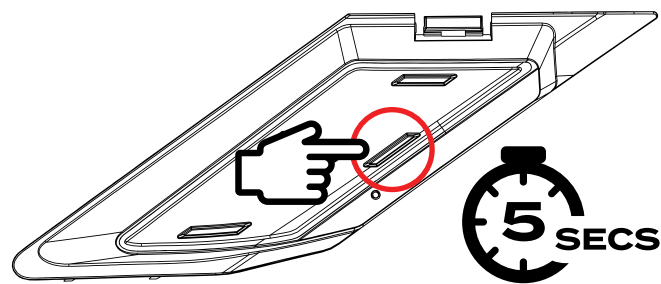


**DMC (DYNAMIC MESH COMMUNICATION)**

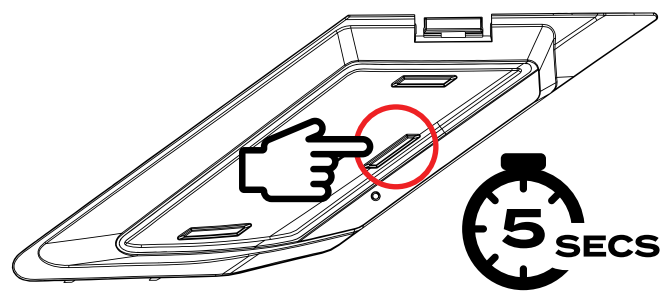
**OPEN PUBLIC MODE INTERCOM**



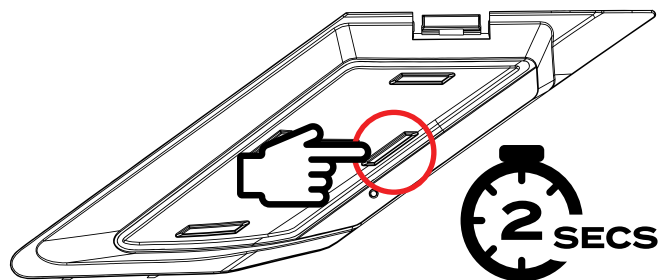
**CLOSE PUBLIC MODE INTERCOM**



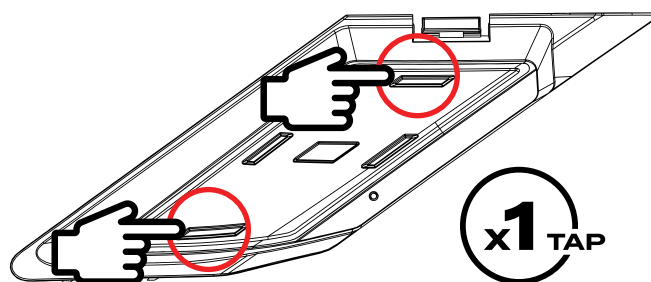
**START DMC GROUPING**



## STOP DMC GROUPING

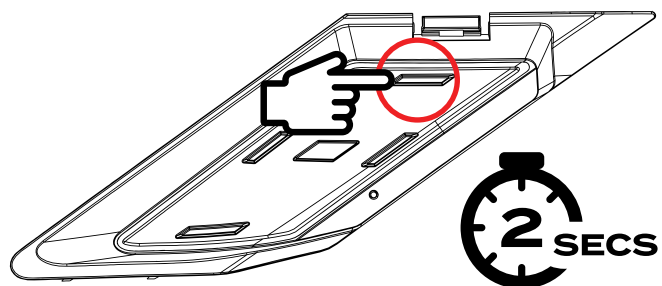


## MUTE DMC GROUP



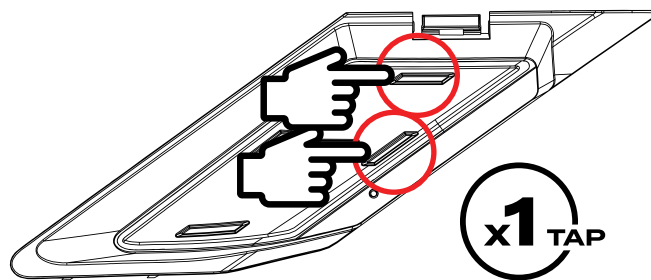
PRESS BOTH BUTTONS AT THE SAME TIME

## SHARE PHONE CALL WITH GROUP



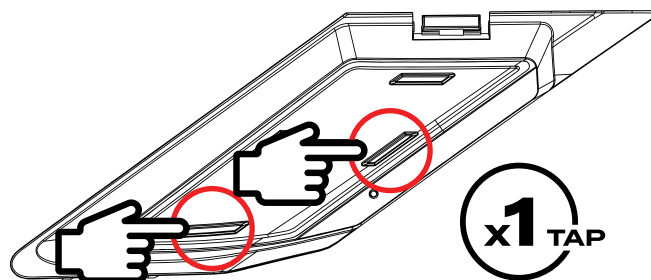


**START/STOP PASSENGER BLUETOOTH TO DMC GROUP**



**PRESS BOTH BUTTONS AT THE SAME TIME**

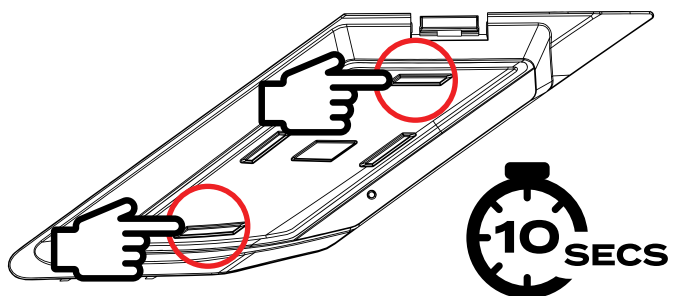
**START/STOP PRIVATE CHAT (PREDEFINED PARTNER)**



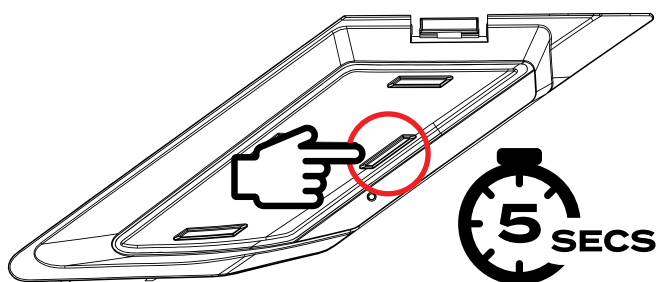
**PRESS BOTH BUTTONS AT THE SAME TIME**

## BLUETOOTH INTERCOM

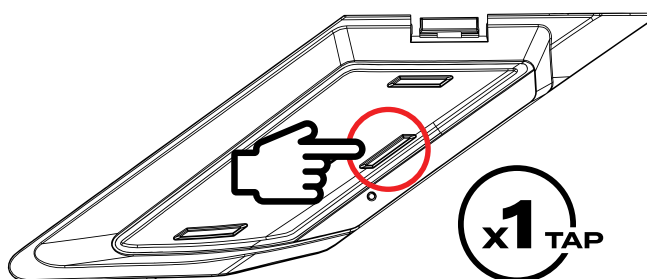
### SWITCH SOURCE DMC/BLUETOOTH



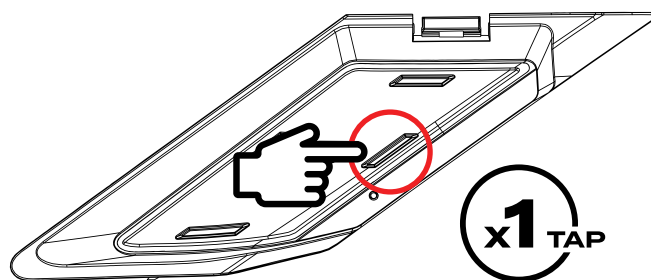
### START INTERCOM RIDER 'A' PAIRING



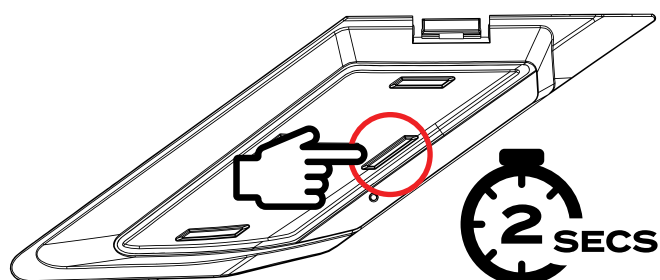
### START INTERCOM RIDER 'B' PAIRING



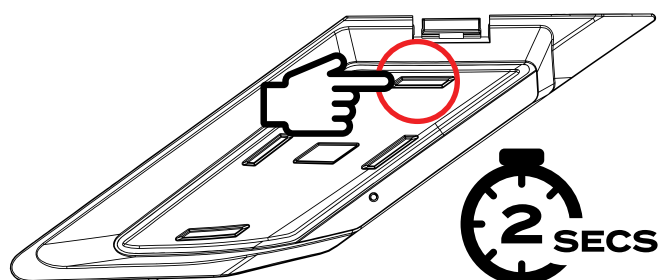
## RETURN TO RIDER 'A' PAIRING



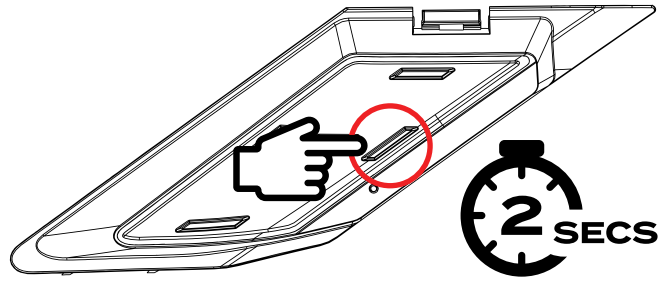
## STOP INTERCOM PAIRING



## START/SHOP SHARE PHONE CALL WITH BLUETOOTH INTERCOM CHANNEL ('A' OR 'B')



**BLUETOOTH INTERCOM – OPEN/CLOSE CHANNEL (A&B)**





- Answer
- Ignore
- "Hey Cardo, end call"
- "Hey Cardo, speed dial"
- "Hey Cardo, redial number"



- "Hey Cardo, music on"
- "Hey Cardo, music off"
- "Hey Cardo, next track"
- "Hey Cardo, previous track"
- "Hey Cardo, share music"



- "Hey Cardo, radio on"
- "Hey Cardo, radio off"
- "Hey Cardo, next station"
- "Hey Cardo, previous station"



For Bluetooth Intercom only.

- "Hey Cardo, call Intercom"
- "Hey Cardo, end Intercom"



- "Hey Siri"
- "OK Google"



- "Hey Cardo, volume up"
- "Hey Cardo, volume down"
- "Hey Cardo, mute audio"
- "Hey Cardo, unmute audio"
- "Hey Cardo, mute microphone"
- "Hey Cardo, unmute microphone"



- "Hey Cardo, battery status"



- Antworten
- Ignorieren
- "Hey Cardo, **anruf beenden**"
- "Hey Cardo, **kurzwahl**"
- "Hey Cardo, **wahlwiederholung**"



- "Hey Cardo, **musik an**"
- "Hey Cardo, **music aus**"
- "Hey Cardo, **titel vor**"
- "Hey Cardo, **titel zurück**"
- "Hey Cardo, **musik teilen**"



- "Hey Cardo, **radio an**"
- "Hey Cardo, **radio aus**"
- "Hey Cardo, **sender vor**"
- "Hey Cardo, **sender zurück**"



Nur für Bluetooth-Sprechanlage

- "Hey Cardo, **Interkom start**"
- "Hey Cardo, **Interkom stop**"



- "Hey Siri"
- "OK Google"



- "Hey Cardo, **lauter**"
- "Hey Cardo, **leiser**"
- "Hey Cardo, **stumm ein**"
- "Hey Cardo, **stumm aus**"
- "Hey Cardo, **mikrofon stumm schalten**"
- "Hey Cardo, **mikrofon einschalten**"



- "Hey Cardo, **akkustatus**"



- Réponds
- Ignore
- "Hey Cardo, raccroche"
- "Hey Cardo, numéro favori"
- "Hey Cardo, rappelle le numéro"



- "Hey Cardo, allume la musique"
- "Hey Cardo, éteins la musique"
- "Hey Cardo, morceau suivant"
- "Hey Cardo, morceau précédent"
- "Hey Cardo, partage la musique"



- "Hey Cardo, allume la radio"
- "Hey Cardo, éteins la radio"
- "Hey Cardo, station suivante"
- "Hey Cardo, station précédent"



Pour l'interphone Bluetooth uniquement

- "Hey Cardo, appelle l'Intercom"
- "Hey Cardo, quitte l'Intercom"



- "Dis Siri"
- "OK Google"



- "Hey Cardo, augmente le volume"
- "Hey Cardo, baisse le volume"
- "Hey Cardo, coupe le son"
- "Hey Cardo, active le son"
- "Hey Cardo, coupe le micro"
- "Hey Cardo, active le micro"



- "Hey Cardo, niveau de batterie"



- Pronto
- Ignora
- "Ciao Cardo, termina chiamata"
- "Ciao Cardo, selezione rapida"
- "Ciao Cardo, ricomponi il numero"



- "Ciao Cardo, accendi la musica"
- "Ciao Cardo, spegni la musica"
- "Ciao Cardo, traccia successiva"
- "Ciao Cardo, traccia precedente"
- "Ciao Cardo, condividi musica"



- "Ciao Cardo, accendi la radio"
- "Ciao Cardo, spegni la radio"
- "Ciao Cardo, stazione successiva"
- "Ciao Cardo, stazione precedente"



Solo per interfono Bluetooth

- "Ciao Cardo, chiama interfono"
- "Ciao Cardo, termina interfono"



- "Ehi Siri"
- "Okay Google"



- "Ciao Cardo, alza il volume"
- "Ciao Cardo, abbassa il volume"
- "Ciao Cardo, silenzia audio"
- "Ciao Cardo, riattiva audio"
- "Ciao Cardo, disattiva microfono"
- "Ciao Cardo, riattiva microfono"



- "Ciao Cardo, livello della batteria"



## FCC REGULATORY COMPLIANCE

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.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## ISED COMPLIANCE STATEMENT

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## SAR STATEMENT

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. End User must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the head.

Cet équipement est conforme aux limites d'exposition aux rayonnements FCC et ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Le dispositif portatif est conçu pour répondre aux exigences d'exposition aux ondes radio établie par la Commission fédérale des communications (États-Unis) et l'ISED. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu'il est correctement porté sur le tête.

## COMPLIANCE CE

This device complies with RF specifications when the device is used in typical operation.

Hereby Ruroc Ltd declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU.

This device can be operated in all EU member states.

For further information, please visit <https://support.ruroc.com/>

**FCC ID: 2AZ5F-SW-MH**

## ATTENTION

1. Installing equipment on the helmet is a modification of the helmet, which may cause the helmet's warranty to fail or hinder the helmet's function. This may cause danger in the event of accidents.
2. Before using the Shockwave Bluetooth system, please ensure that the product is firmly and correctly installed in the helmet. If the product falls off during riding, it may cause injury or accident.
3. To ensure riding safety, please use this product carefully to avoid injury, serious harm or death.
4. In order to maximise the communication distance, aim to use the system in an open space with a clear line of sight.
5. In the case of rain, please keep the USB rubber plug tightly installed during use to prevent water from entering the device.
6. The device contains a 3.8V/650mAh LiPoly (Lithium Polymer) battery that will change with temperature. When the battery is used at a low ambient temperature (0°C), the battery life of the product may be temporarily reduced, with a risk of permanent damage.
7. If the electronic functions fail, please power off the device and try again.

## SPECIFICATION

**BLUETOOTH® VERSION:**  
DUAL-MODE BT 5.3 WITH LE AUDIO

**SUPPORT:**  
STAR-MC1 PROCESSOR, BECO  
COPROCESSOR

**ELECTRIC PARAMETER:**  
DC 5V/1A

**AUDIO ENCODING FORMAT:**  
SBC, (4) AAC (MPEG-2)

**RIDER-PILLION INTERCOM  
COMMUNICATION DISTANCE:**  
UP TO 10 METERS

**BLUETOOTH® HEADSET COMMUNICATION  
DISTANCE:**  
UP TO 10 METERS

**CHARGING INTERFACE:**  
USB TYPE-C

**PERMISSIBLE OPERATING TEMPERATURE:**  
-20~+45°C / -4~+113°F

**RECOMMENDED STORAGE  
TEMPERATURE:**  
-5~+30°C / 23~+86°F

**WATERPROOF RATING:** IP64

# cardo® | SHOCKWAVE



**CARDO  
CONNECT APP**



[CARDOSYSTEMS.COM/UPDATE](https://cardosystems.com/update)  
[CARDOSYSTEMS.COM/SUPPORT](https://cardosystems.com/support)  
[RUROC.COM/SUPPORT](https://ruroc.com/support)