arva

TECNICAL GUIDE
WINTER
22/23
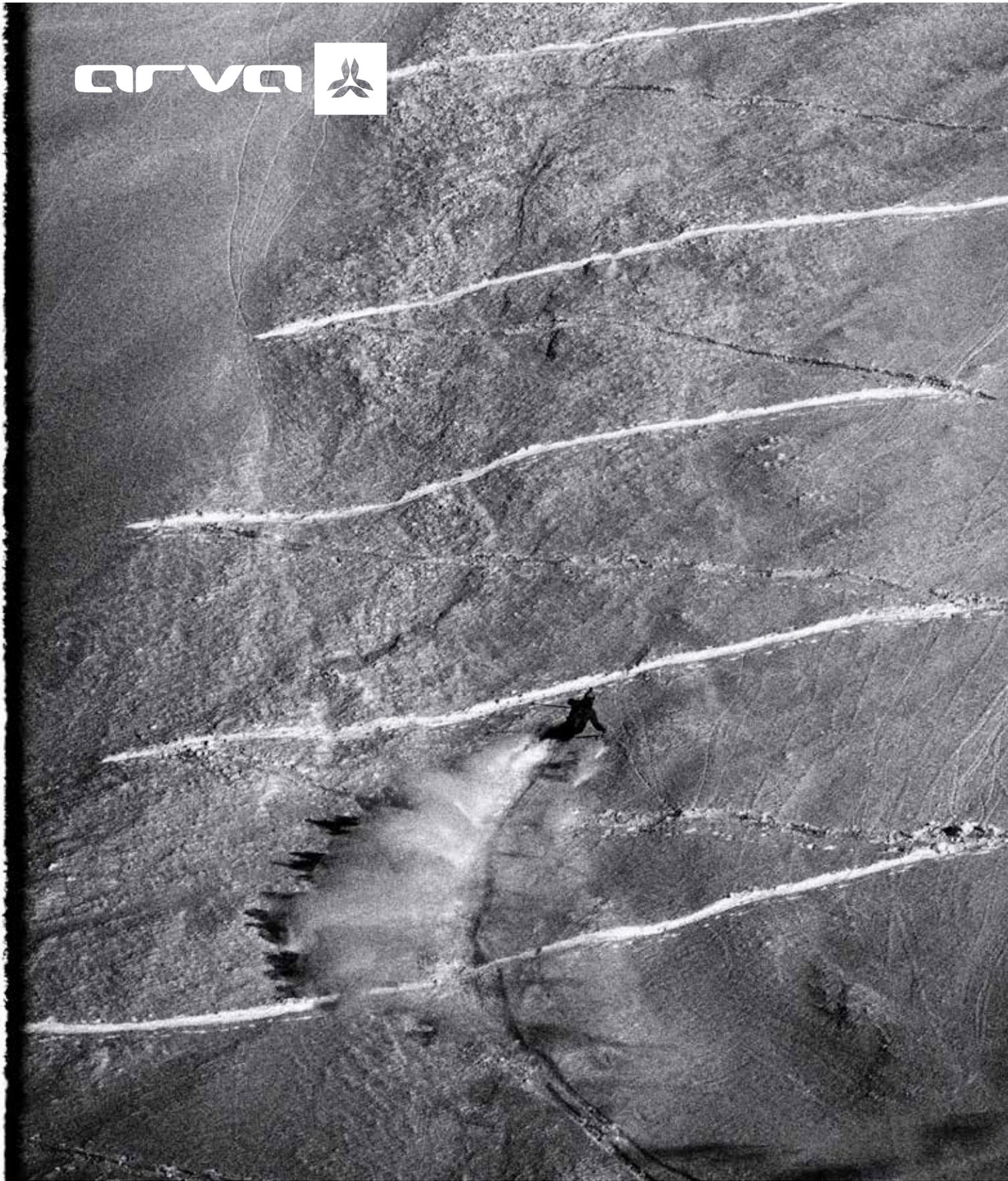
ARVA PROUDLY PRODUCES ITS BEACON AND REACTOR RANGES IN FRANCE DESIGN DEVELOPED AND MADE IN FRANCE

The team here at ARVA is made up of alpine skiers, backcountry skiers, avid hikers, and professionals all with a love and passion for spending time in the mountains. The direct feedback that we receive from the field inspires us to innovate and to always take it one step further each and every day. As an independent, family-run company for two generations, we are free to make choices as we see fit, without pressure from stockholders or outside investors. This kind of freedom allows us to invest in research and development for our snow-safety products, always with the goal of saving lives and never to boost our image. Protecting and saving lives has been our core mission for more than thirty years.

Daily use in the mountains, our extensive experience, and rigorous testing guide our choices in product design. Listening, experimenting, and starting all over again, such is our product development process. This year, ARVA continues to innovate with a new high end transceiver. It is the direct result of feedback from user experience in the field. Welcome to a world of innovation and genuine passion for the mountains!
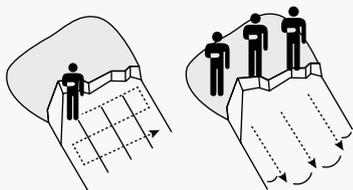
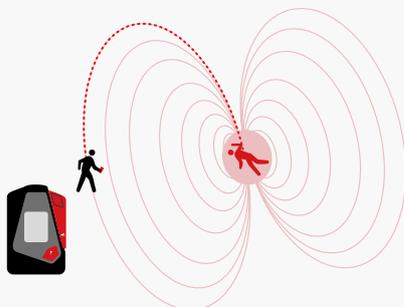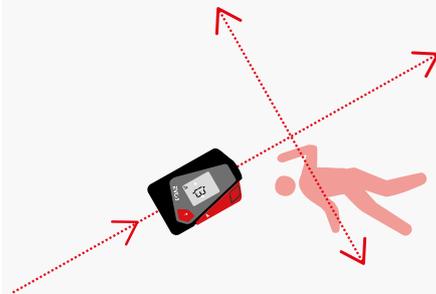Patrick Giraudon
Owner CIO

TRANSCEIVERS

— Research steps

1 SIGNAL SEARCH
RECHERCHE DU SIGNAL
SIGNALSUCHE

2 COARSE SEARCH
RECHERCHE APPROXIMATIVE
GROBSUCHE

3 FINE SEARCH
RECHERCHE FINE
FEINSUCHE

4 POINT SEARCH
RECHERCHE DU POINT
PUNKSTUCHE

25cm 25cm
25cm 25cm
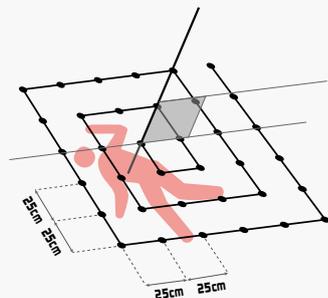
5 V-SHAPED SHOVELING
PELLETAGE EN "V"
FREISCHAUFELN

— Statistics

Odds of survival for a person buried
Chance de survie pour une personne ensevelie

18MN = 91%
35MN = 34%
60MN = 30%

Rescue times based on equipment used
Temps de dégagement avec les différents
équipements

+ + =11MN

+ = 25MN

= 60MN

**Avalanche accidents with one
or more victims**
Avalanches avec une victime ou plus

78%
13%
7%
2%

EVO5

Maximum performance, minimal size. The compact EVO5 is packed with the right technology to make it simple to use during a search. Both everyday and occasional users will love this device.

The EVO5 capitalizes on ARVA's 35-year expertise to fit in the palm of your hand. Our R&D team pushed the size/performance ratio past the edge of the envelope to create a device that fits perfectly in your jacket pocket. With a 50m search strip width, group check, marking function, and an automatic revert-to-transmit mode, the EVO5 is jam packed with all of the essential functions needed to rescue an avalanche victim. Equipped with a backlit screen and a speaker that emits a precise, modulated beep, this transceiver will efficiently and effectively guide you to the burial zone.

LOCK BUTTON IN TRANSMIT MODE (SEND)

OFF/SEND/SEARCH SELECTOR SWITCH

MARKING BUTTON

FEATURES

- Digital 3-antenna device
- Frequency: 457 kHz
- Search strip width: 50m
- Active interference management
- Automatic revert to transmit by timer (8 min)
- Power supply: 1 AA/LR06 alkaline battery
- Battery life (alkaline battery): minimum 200 hours in transmit mode followed by 1 hour in search mode.
- Operating temperature range: -20°C to +45°C
- Weight: 165g (battery included).
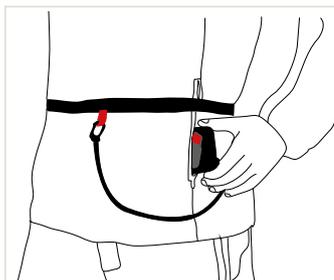
50m — 50 M SEARCH STRIP WIDTH

3+ — MULTIPLE BURRIED INDICATOR

457 kHz — GROUP CHECK

MARKING FUNCTION

AUTO-REVERT TIMER

INTERFERENCE MANAGMENT

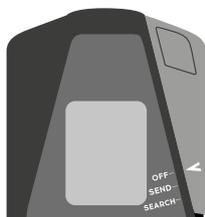U-TURN ALARM

BACKLIT SCREEN

AUTOTEST

USER GUIDE

1/ GETTING STARTED

The device is off when the OFF/SEND/SEARCH selector switch is in the top position and the selector's white arrow points to "OFF".

To turn on the device, push the OFF/SEND/SEARCH selector (located on the upper right-hand side of the device) down until the lock button mechanically locks it into place (the white arrow should point to "SEND").
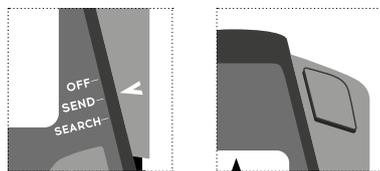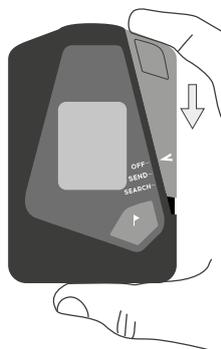
The selector is properly locked when, in transmit mode, the lock button pops out and you hear it click into place and you cannot push it down any further.

When the device turns on, it automatically checks that all main functions are working properly. Verify that the auto-test runs correctly and pay close attention to any error messages that display when turning on your device.

The device then displays the software version installed and remaining battery life. We recommend that you replace the battery as soon as it drops below 50%. Holding down the marking button in transmit mode will allow you to check battery life left at any time.

Once the start-up phase is complete, the device automatically switches to transmit mode. A blinking arrow in the upper middle of the screen confirms that your transceiver is in transmit mode.

2/ TURNING OFF THE DEVICE

To turn off the device when it is in transmit mode, press the lock button to unlock the OFF/SEND/SEARCH selector switch and then push the selector into the upper position, with the white arrow pointing to "OFF". You will then be asked to confirm that you want to turn off the device by pressing on the marking button.
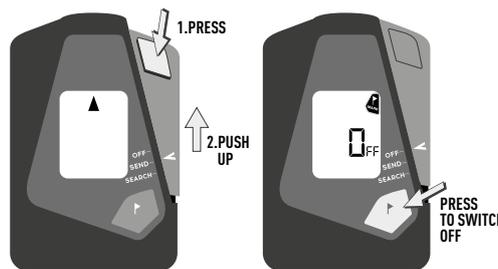
3/ SEARCH MODE

In the event of an avalanche, to switch from search to transmit mode, take the device out of your pocket or holster and press the lock button down to unlock and push the selector switch down to the "SEARCH" position.
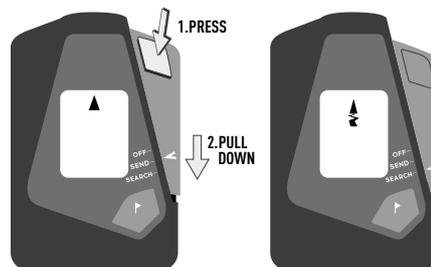
3.1/ GROUP AND FREQUENCY CHECK

Before starting your outing, check to make sure that everyone's device is in transmit mode and working properly. The group leader should switch their device into GROUP CHECK mode to check the devices of the other members in the group.
When turning on the EVO5 in transmit mode, it will prompt you to switch to GROUP CHECK mode. To enter GROUP CHECK mode, push on the marking button when the GROUP CHECK icon is blinking in the upper part of the screen.
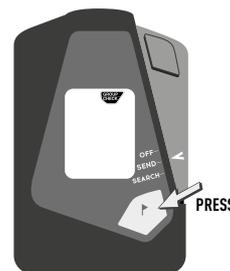
You will then be able to test your partners' devices one by one by positioning your device 1m away from each device you check.
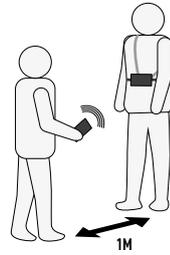
In GROUP CHECK mode, the EVO5 starts by analyzing the transmit frequency. If the frequency does not comply with current standards, a "no" message will appear indicating that the device being checked is defective and should be sent to customer service. If the frequency meets the standard, a distance reading will display on your screen and you may then proceed to checking transmit power :

If the distance displayed alternates between 0.5m and 1.5m, and you are positioned 1m from the device being checked, your device will emit a standard search beep indicating that the transmit power meets standard requirements.

• If the distance displayed seems strange, this means that the transmit power might be faulty and that the device should be sent to customer service for further inspection and maintenance.

Make sure that the group leader's device is also checked once the group check is finished. Push on the marking button to switch to transmit mode.

3.2/ RESCUE

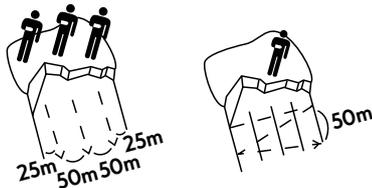#### 3.2.1/ STEP 1: SIGNAL SEARCH

To search for a signal, move through the avalanche debris using one of the two techniques illustrated in the diagrams below.


It is important to point your transceiver in the direction of the avalanche, parallel to the slope. Listen carefully for the first signs of a signal while also paying attention to any visual clues (poles, skis, and clothing). As soon as you receive a signal, a victim icon appears on the screen.

The victim icons are located on the bottom left of your screen. The "+" icon indicates that there are more than three burials.

3.2.2/ STEP 2: COARSE SEARCH

As soon as you receive a signal, place the device in the palm of your hand, parallel to the slope, and pointing in the direction indicated on the screen. Pay close attention to the distance and the direction indicated on screen. For the initial signal received (the strongest signal), the first avalanche victim icon appears on screen, and once locked in, the icon will start to blink. The victims are ranked by signal strength, from strongest to weakest. So the victim corresponding to the strongest signal will blink on your screen. If you come close to another burial during your search, the icon corresponding to this victim will also start to blink.
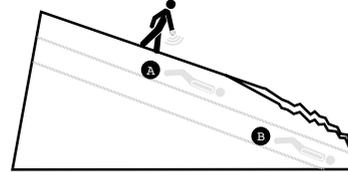
If you are not heading in the right direction, an alarm will sound and "u-turn" icon will appear on screen indicating that you should turnaround to head in the correct direction towards the victim(s) burial zone.

In a complex situation where there are multiple burials or in an environment where there is a lot of interference, the device might reach analysis overload. In this case, distance yourself from that specific area and then return by following another direction.

3.2.3/ STEP 3: FINE SEARCH

When the screen indicates that you are "3 meters" from a burial, your device will no longer indicate a direction. At this point you need two conduct a fine search using a "cross pattern".

Example of fine search technique

1st probing point
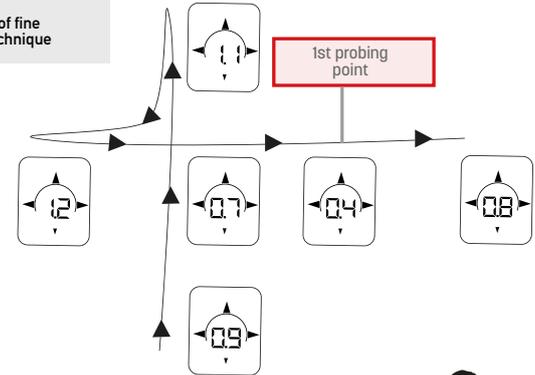
1. Position your device near snow level

2. Move your device in a cross pattern to locate the point where the distance reading is the lowest.

Marking function: When you are less than 3 meters from the burial(s), a marking icon blinks in the upper righthand corner of the screen. Press the marking button to mark the victim. The device will start searching for the next victim without any already marked burial(s) interfering.

In a multi-burial situation, as soon as you mark a victim, step 1 meter away to prompt the device to more quickly start searching for the next buried victim. When you mark a victim, a flag appears next to that victim's icon.

3.3/ AUTOMATIC REVERT-TO-TRANSMIT MODE

In the event of a secondary avalanche, the automatic revert-to-transmit mode allows the device to automatically switch back to transmitting a signal. In search mode, the device will beep every 8 minutes and the "AUTO-REVERT" icon will appear on screen asking the user to confirm they would like to continue in search mode. Press on the marking button to signal to your device that you are not buried. If no action on your part is detected, the device automatically reverts to transmit mode.

**Warning: if a search is still in progress to find other buried victims, is important for your device to stay in search mode. If it reverts to transmit mode, it will interfere with the search for other victims. Make sure that you push your device's marking button to stay in search mode if you are not caught or buried in a secondary avalanche.**

4/ PROBING - SHOVELING

Before you start probing, make sure that you place your device in the dedicated pocket you chosen to carry it, with the zipper closed, to keep it out of the cold and well-protected from impacts. As soon as you have defined the zone where the victim is likely buried, it is quicker to start probing. Search for the victim by probing in concentric spirals progressively away from the minimum distance point detected by your ARVA. Probe perpendicular to the slope.
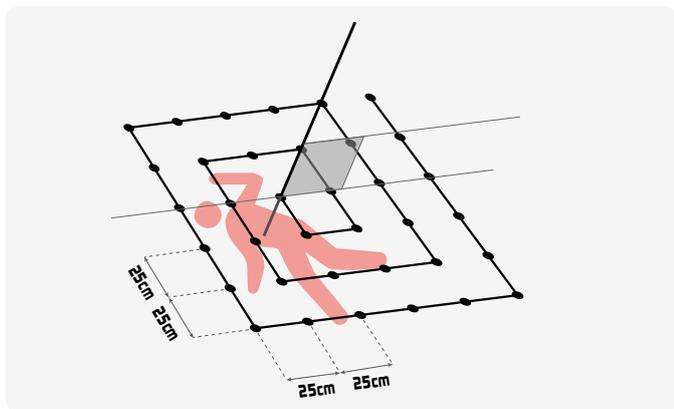
Statistically, shoveling takes at least as much time as the transceiver search. It is important to take a methodic approach to shoveling.

The V-shaped conveyor technique allows you to optimize shoveling. As soon you uncover the person, it is important to turn off their transceiver as quickly as possible.

5/ INTERFERENCE

Certain electronic devices as well as electrical and electromagnetic installations can significantly interfere with transceiver signals.

These sources are:

• Carried: smart phones, radios, cameras, heart rate monitors, GPS, etc.
• Permanent: relay towers, power lines / electricity generating equipment, ski lifts.
In order to reduce the risk of signal deterioration, we recommend that you keep your transceiver as far as possible from sources of electrical and electromagnetic activity.

5.1/ RECOMMANDATIONS IN SEARCH MODEE

Move all metallic and electronic devices at least 50cm away from your transceiver.

When conducting a search, we recommend turning off all electronic devices except analog radios, headlamps without an automatic regulator, watches that do not have a radio feature, and backup transceivers in the event of a secondary avalanche. Turn off all telephones and digital radios during an active search. All telephone calls should be made at least 25m from the people conducting the active search.

5.2/ RECOMMANDATIONS IN TRANSMIT MODE

Move all metallic and electronic devices at least 20cm away from your transceiver.

5.3/ ACTIVE INTERFERENCE MANAGEMENT

With the huge increase in the use of wearable electronic devices, the potential has increased for electromagnetic interference of the search signal. These incidences have primarily been observed near ski areas. Active interference management is a default setting on the EVO5, allowing your device to detect interference zones and, if necessary, reduce the search strip width. The user can then adapt their search strategy accordingly.

With no interference, the theoretical search strip width is 50m. If there is any interference, the device will reduce the search strip width to 20m and display an "INTERFERENCE 20m" message. If there is indeed interference, it is important to adapt your search technique by narrowing your search strips to 20m.

6/ WARRANTY - MAINTENANCE - LIFECYCLE

Your device (without batteries) has a 2-year warranty starting from the purchase date. All ARVA transceivers have a unique identification number. **Registering your device on www.arva-equipement.com allows us to link your contact information to your device to for optimal tracking and to add another 3 years to your warranty.**

Any damage caused by improper use is not covered by the warranty. The warranty is void if the device was opened by the user or an unqualified third party. We recommend sending us your device once every 3 years for maintenance (and once every 2 years for professionals).

EVO4

The EVO4 needs no introduction! This device performs well in the hands of both new and experienced backcountry enthusiasts who are looking for an easy-to-use avalanche transceiver.

The EVO story continues with the brand new EVO4. Thanks to its new design, a true mark function, and a new LCD screen, this well-known device is getting an overhaul; it is better and more efficient than ever before. Pulling features from innovations on the NEO, the new EVO4 display is more intuitive and allows you to quickly identify the number of buried victims in a search. Features also include a group–check function and the classic "clip for safe" system, making this transceiver an affordable no-brainer for snow enthusiasts entering the backcountry. CLIP FOR SAFE CONCEPT: as soon as you put your transceiver on and clip the strap, it automatically activates and starts transmitting. This easy and convenient way to ensure that your device is in transmit mode increases everyone's safety when heading into the backcountry or off-piste.

FEATURES

- 100% digital
- 3 antennas
- Distance and direction indicator
- Marking function for multiple burials
- An icon for 1, 2, 3 or more victims
- 40 m search bandwidth
- 240 g
- Battery life : 250+ hours
- Requires 4 alkaline AAA/ LR03 batteries
- Group Check
- Operating temperature range: -20°C to +45°C
- Maximum operational altitude: 5000 m

SEARCH /
TRANSMIT BUTTON

MARKED
VICTIM BUTTON

ON/ OFF BUTTON

BOUTON ON/OFF

40m — 40 M SEARCH STRIP WIDTH

3+ — MULTIPLE BURRIED INDICATOR

457 kHz — GROUP CHECK

MARKING FUNCTION

CLIP FOR SAFE

X3 — 3 ANTENNAS

DIGITAL

BACKLIT SCREEN

AUTOTEST

1/ GETTING STARTED

1.1/ CLIP FOR SAFE

Once you are wearing your transceiver, it automatically turns on as soon as you connect the strap. This is a simple and easy way to be 100% certain that your ARVA is working as soon as you start your outing. For more advance users (professionals) who do not want to use the clip for safe feature, a special holster is available for purchase as an accessory.

1.2/ BATTERY CHECK

Just after turning on your device, it will indicate the battery level. We recommend that you replace the batteries as soon as they drop below 50%.

1.3/ GROUP CHECK

• The Group Check function allows the group leader to verify that all other transceivers are working properly.
• To enter Group Check mode, press the marking button within 5 seconds after turning on the device (in transmit mode).
• The device will verify all transmitting signals within a 0.5 to 1.5 meter radius, and emit a beep to confirm that they function properly.
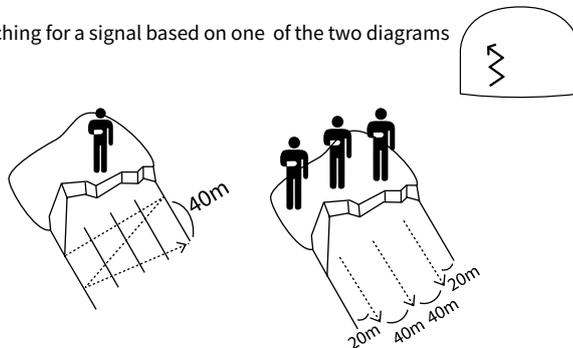• To exit Group Check mode, press the marking button.

2/ SEARCH MODE

To switch to search mode, push the S/T button up with your thumb.

2.1/SIGNAL SEARCH

Start searching for a signal based on one of the two diagrams below.

To maximize the range of your ARVA:
It is important to point your ARVA in the direction of the avalanche, parallel to the slope and not pointing upwards towards the sky.

Slowly rotate back and forth to try to detect the signal(s).

2.1/ COARSE SEARCH

During the coarse search:

• Carefully follow the distance and direction indicators on the screen
• Point the device in the direction of the signal

• Search in a calm and focused manner.
• Slow down as you approach the fine search.
• If the displayed distance starts to increase even though you are moving in the direction indicated by the arrow, turn around.
• In a complex situation with multiple victims, the device may have trouble analyzing the signal. In this case, move a few steps away and then return towards the critical point by following another direction.

> DURING THE SEARCH, PAY ATTENTION TO VISUAL CLUES SUCH AS POLES, SKIS, CLOTHING, ETC.

2.2/ FINE SEARCH

Once within 3 meters of the victim, your ARVA no longer indicates a direction and you must start bracketing (searching in a cross pattern).
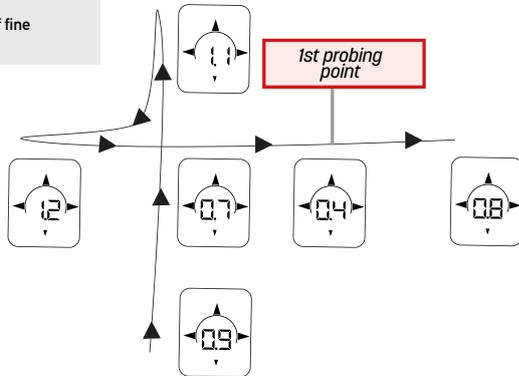
1. Lower your device to near snow level.
2. Move your device in a cross pattern to locate the point where the distance reading is the lowest.

It is then much quicker to start probing once you have defined the probable burial zone within a less than one-meter range.

Exemple of fine search :
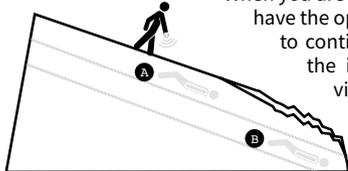
1st probing point

2.3/ MULTIPLE VICTIMS INDICATED

Victims appears on the left part of your screen. When a victim is marked a flag appears close to it. The + indicate that there is 3 or more victims.

2.3/ MARKING FUNCTION

When you are less than 3m from the first victim you have the option of marking the location in order to continue searching for another signal. In the illustration example, you can mark victim A.

To mark the victim, press on the "marking" button. The device will switch to victim B.

3/ PROBING / SHOVELING

Search for the victim by probing in concentric spirals progressively away from the minimum distance point detected by your ARVA. Probe perpendicular to the slope.
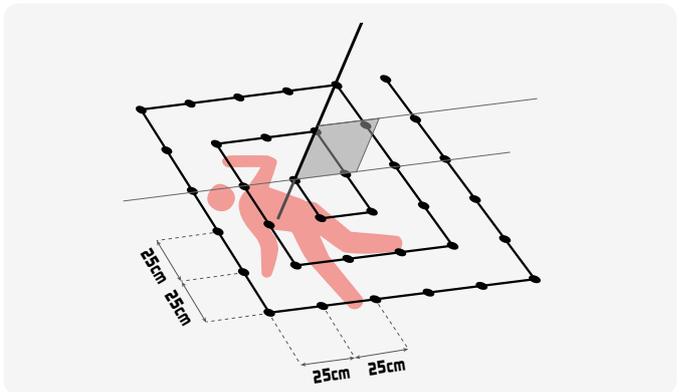
The V-shaped conveyor technique allows you to optimize the excavation phase of shoveling. As soon as the person is uncovered, it is important to turn their transceiver off immediately.

Statistically, shoveling takes at least as much time as the ARVA search. It is important to take a methodic approach to shoveling.

4/ INTERFERENCES

Certain electronic devices as well as electrical and electromagnetic installations can significantly interfere with transceiver signals.

These sources are:
• carried: smart phone - analog radio - camera - heart rate monitors - GPS - etc.
• permanent: relay towers - power lines / electrical generating equipment - ski lifts, etc.
In order to reduce the risk of signal deterioration, we recommend that you keep your transceiver as far as possible from sources of electrical and electromagnetic activity.

IN SEARCH MODE :
Move all metallic and electronic devices at least 50cm away from your transceiver.

During an active search, we recommended turning off all devices except:
• Analog radio
• Headlamp without dimmer
• Watch without a radio function
• Backup devices in the event of a secondary avalanche

Means of communication :
We recommend turning off all digital telephones and radios during the active search phase. All calls should be made at least 25m away from the individuals conducting the active search.

IN TRANSMIT MODE :
Move all metallic and electronic devices at least 20cm away from your transceiver.

NEO BT PRO

The practical Bluetooth-connected NEO BT PRO covers an 80 m search strip width. Connect your device to the ARVA app: configure it, prepare for your trip and even train for rescue!

FEATURES

- 3-antenna digital device
- Search strip width in digital mode: 80 m
- Maximum range in analog mode: 90 m
- Dynamic interference management
- Automatic revert-to-transmit by motion detector
- Power supply: 3 AAA/LR03 alkaline or lithium batteries
- Battery life in transmit mode: 350 hrs with alkaline / 450 hrs with lithium
- Storage temperature range: -20°C to +70°C
- Operating temperature range: -20°C to +45°C
- Maximum operating altitude: 10 000 m
- Avalanche beacon / Frequency band: 456.9 - 457.1 kHz
- Avalanche beacon / Maximum power: H-Field < 2.23 µA/m @ 10 m
- Bluetooth 2.4 GHz / Frequency band: 2.400 - 2.4835 GHz
- Bluetooth 2.4 GHz / Maximum power: ERP < 100 mW
- Weight: 214 g (batteries included)

GAIN BUTTON "-" IN ANALOG MODE / NAVIGATION BETWEEN VICTIMS SCROLLING MODE

GAIN BUTTON "+" IN ANALOG MODE / NAVIGATION BETWEEN VICTIMS SCROLLING MODE

OFF/SEND/SEARCH SELECTOR

UNLOCK BUTTON / EXIT SEND MODE

MARKING FUNCTION

Holster

ELASTIC ATTACHMENT LANYARD

80m 80M SEARCH STRIP WIDTH	BLUETOOTH CONNECTION	**4+** MULTIPLE BURIAL INDICATOR
SEND / SEARCH STANDBY MODE	INTERFERENCE MANAGEMENT	AUTOMATIC ANALOG MODE
457 kHz GROUP CHECK	AUTO-REVERT MOTION SENSOR	SCROLLING FUNCTION
U-TURN ALARM	AUTOTEST	BACKLIT SCREEN

USER GUIDE

1/ SETTING UP YOUR DEVICE

During the start-up phase, press and hold the marking button. The Bluetooth pictogram appears. You can then connect your transceiver to your smartphone. The ARVA application offers a number of services, including the opportunity to register, set up and maintain your transceiver.


▶	Turn on the transceiver by pressing on marking to activate Bluetooth	
🅱	Connect my transceiver to the app	
⚙	Configure my transceiver	

2/ TRANSMIT MODE

The device is off when the side selector is in the OFF position. Move the OFF/SEND/SEARCH selector to the SEND po sition to turn the device on. The selector is locked properly when you hear it click into place, indicating that the selector has been moved to the SEND position.

The device carries out an automatic test during the start-up phase to check the main functions. Be sure to verify that the auto-test is running correctly and pay close attention to any error messages appearing on the screen. The device should display "On", then the software version installed, and finally "OK".
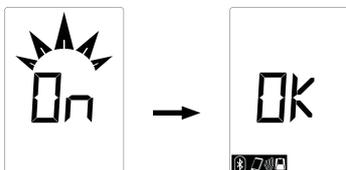
The device then displays the remaining battery life. We advise you to replace the batteries as soon as the battery life indicator drops below 50%. Press and hold the marking button in transmit mode to check the battery life at any time.

Once the start-up phase is complete, the device prompts the user to carry out a GROUP CHECK (see paragraph 3.1/ GROUP AND FREQUENCY TEST) and then automatically switches to transmit mode without any further action from the user. A blinking arrow then appears at the top of the screen to confirm that the transceiver is in transmit mode.

3/ TURNING OFF THE DEVICE

Press the unlock button and move the selector to OFF to turn the device off.

4/ SEARCH MODE

In the event of an avalanche, switch to search mode from transmit mode. Take the device out of its holster, press the release button and move the OFF/SEND/SEARCH selector to the SEARCH position.

4.1/ GROUP AND FREQUENCY TEST

Before you begin your outing in the mountains, it is important to test the group member' devices to ensure that they are in transmit mode and working properly. The group leader must switch their device to GROUP CHECK mode to test the devices. When it is switched on in transmit mode, the NEO BT PRO prompts you to choose GROUP CHECK mode. To enter GROUP CHECK mode, press the marking button when the GROUP CHECK pictogram is blinking on the screen.

In this mode, you can test your partners' devices one after another by positioning your device 1 m away from each device to be checked. It is imperative you stay 1 m away for the GROUP CHECK to work properly; if you do not, the device will inform you that you are too close or too far away with repeated "double beeps".

In GROUP CHECK mode, the NEO BT PRO displays the status of the transmit frequency and transmit power in a loop. If the frequency is correct, "FY" / "OK" will be displayed. If it is not correct, then "FY" / "ER" will appear on the screen, meaning that the device being checked is defective and must be taken care of by our after-sales service.
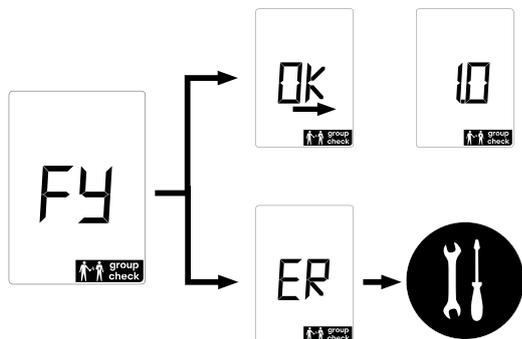
To test the transmit power, you should check the distance displayed on the screen:

- If the displayed distance fluctuates between 0.5 m and 1.5 m and you are positioned correctly 1 m from the device being checked, the transmit power is correct, and your device will emit a standard search "beep."

- If the distance displayed seems to be inconsistent, this means that the transmit power may not be correct and that the device being checked should be taken care of by the after-sales service

When the group check is complete, press the marking button to switch to transmit mode. Be sure to test the group leader's device using one of the devices previously tested. GROUP CHECK mode can be accessed again at any time from transmit mode by pressing the "+" and "-" buttons simultaneously. The device automatically switches to transmit mode after 8 minutes for safety reasons.

4.2/ RESCUE

4.2.1/ STEP 1: SIGNAL SEARCH

Take your NEO BT PRO out of its holster and put it into search mode. Then, proceed across the avalanche in search of a signal using the techniques shown in one of the 2 diagrams below. The screen displays the signal search icon.
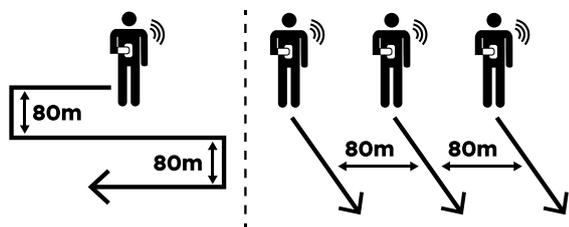

It is important to point your transceiver in the direction of the avalanche, parallel to the slope. Listen carefully for the first signals, paying attention to external visual clues (poles, skis, clothing) at the same time. As soon as the first signal is detected, a "VICTIM" pictogram will appear on the screen automatically.

The "VICTIM" pictograms are located on the left of your screen; the "+" pictogram indicates that there are more than 4 burial victims.

4.2.2/ STEP 2: COARSE SEARCH

When one of the "VICTIM" pictograms starts blinking, your device has locked onto the signal from this burial, and you are in the coarse search phase. Position the device on the palm of your hand parallel to the slope and pointing in the direction indicated on the screen. Pay close attention to the distances and directions displayed. The signals from the victims are ranked from the strongest to weakest (from top to bottom).
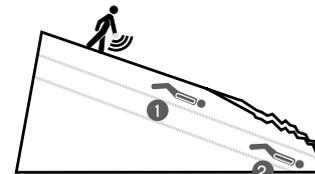
If you come closer to another burial during your search, this burial's pictogram will, in turn, begin to blink.

If you are not going in the right direction, an audible alarm accompanied by the appearance of the U-TURN pictogram will tell you to turn around to find the fastest route.

SCROLLING MODE: when scrolling mode is activated (see paragraph 1.5/ SETTING UP YOUR DEVICE), you have the option to select the burial you want to target. Use the "+" and "-" buttons to select the burial you want to target (the pictogram corresponding to this burial will blink). **Please note that this mode is reserved for expert users with advanced avalanche rescue skills.**
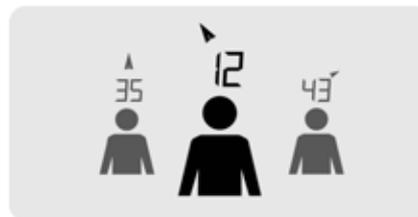
4.2.3/ STEP 3: FINE SEARCH

When the screen indicates you are 3 m from the burial(s) location (or 5 m depending on the settings), your device will no longer give any direction, and you will begin the cross-search phase. Move your device in a criss-cross pattern until it is vertically above the point where the distance reading is lowest.
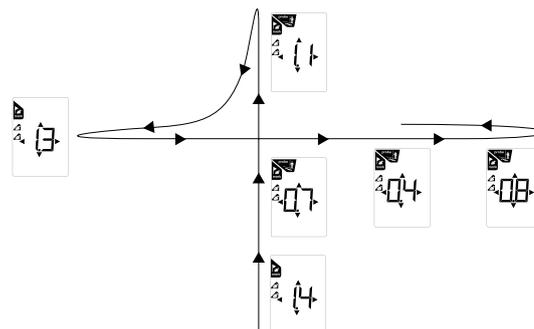
Marking function: when you are less than 3 m distance from the burial(s) location (or 5 m depending on the setting), the MARKING pictogram blinks at the top right-hand side of the screen. Press the marking button to mark the burial. The device then searches for the next burial without returning to the previously marked burial(s). When you mark a burial, a flag appears next to their pictogram.

4.3/ ANALOG SEARCH MODE

It may be more useful to switch your device to analog search mode in some situations. You can activate the analog search mode from the search mode by briefly pressing the "+" and "-" buttons simultaneously using your left and right thumbs (repeat the operation to return to the digital search mode).

By default, in analog mode, sensitivity calibration is performed automatically. To switch to manual mode, press either the "+" or "-" button and then adjust the sensitivity according to your progress using the same buttons.

The left and right arrows blink alternately to help the user choose the correct calibration. If you press the marking button, you return to automatic sensitivity calibration management. At sensitivity level 10 (the highest), the screen switches itself off to limit the level of interference and provide maximum detection performance.

Analog search mode is not recommended for novice or inexperienced users. In analog search mode, the rescuer can listen to the raw signals transmitted by the burial victims' devices, making it easier to analyse complex situations.

4.4/ AUTOMATIC REVERT-TO-TRANSMIT MODE

In the event of a secondary avalanche, the automatic revert-to-transmit mode allows the device to switch into transmit mode automatically. The NEO BT PRO has a motion sensor that detects if the rescuer is immobilised and buried. The automatic revert-to-transmit time can be set via the configuration menu to 2 mins, 4 mins, or 8 mins, or it can be deactivated (see paragraph 1.5/ SETTING UP YOUR DEVICE). The default automatic revert-to-transmit time is 2 minutes. If the device does not detect any movement within 2 minutes, an audible signal will be emitted asking the rescuer to confirm they wish to remain in search mode. Press the marking button briefly to signal to your device that you are not buried. If the device detects no action on your part, it switches to transmit mode.
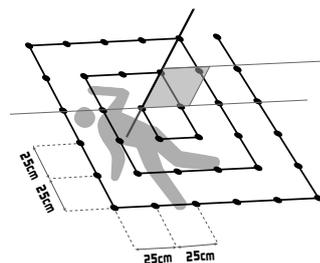
5/ PROBING - SHOVELING

The probe pictogram (probing) appears when the device is less than 1.2 m from the burial (or 2 m if the user has set the fine search distance to 5 m).

Before you start the probing - shoveling phase, make sure you place your device properly in the holster, well-protected from the cold and impacts. As soon as you have defined the area where the victim is likely to be buried, it is quicker to start probing. Search for the burial by probing perpendicular

STANDBY mode:
We recommend switching your device to standby mode while you are probing-shoveling. This mode is a neutral position (pause) in which the device is neither in search mode nor in transmit mode, allowing the rescuer to concentrate fully on extricating the burial. In STANDBY mode, the device stays on, ensuring the rescuer can activate automatic revert-to-transmit mode if necessary. Standby mode can be activated from search mode by pressing and holding the "-" button. Press and hold the "-" button again to exit STANDBY mode.
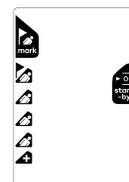
Shoveling takes at least as long as searching with the transceiver. A methodical approach to the shoveling phase is essential. Using the V-shaped conveyor technique is the most effective way of shoveling and clearing. You must turn off the burial victim's transceiver as soon as they are uncovered.

6/ INTERFERENCE

Some electronic devices and electrical and electromagnetic installations can interfere significantly with the operation of transceivers. These sources can be:

- Embedded: smartphone, digital radio, camera, heart rate monitor, GPS
- Fixed: relay antennas, high voltage lines, power supplies, ski lifts

We recommend that you keep sources of electrical and electromagnetic activity away from your device as much as possible to minimise the risk of signal interference.

6.1/ RECOMMENDATIONS IN SEARCH MODE

Keep all metal and electronic devices at least 50 cm away from the transceiver.

6.2/ RECOMMENDATIONS IN TRANSMIT MODE

Keep all metal and electronic devices at least 20 cm away from the transceiver.

6.3/ DYNAMIC INTERFERENCE MANAGEMENT

With the proliferation of electronic devices people are carrying, instances of electromagnetic interference that can disrupt a signal search are becoming more frequent. This phenomenon has been mainly observed near resorts and ski areas. Dynamic interference management is activated by default on the NEO BT PRO. This allows your device to detect areas of interference and reduce the search strip width if necessary, allowing users to adapt their search strategy accordingly.

The theoretical search strip width in a normal environment is 80 m. The INTERFER-

ENCE pictogram appears on the screen when interference is detected, and the device reduces the strip width to 30 m. When this happens, change your search technique by narrowing your search strip to 30 m.

7. WARRANTY - MAINTENANCE

Your device (excluding batteries) is guaranteed for 2 years from the date of purchase. ARVA devices are identified by a unique traceability number. When you register on www.arva-equipement.com or on the ARVA app, we can associate this number with your contact information and give you the benefit of an additional 3 years of warranty. The warranty does not cover damage due to misuse. The warranty is no longer valid if the user or an unauthorised third party has opened the device. If you require after-sales service, please bring proof of purchase and a detailed description of the defect observed to your point of sale. We advise an equipment check every 3 years for individuals and every 2 years for professionals.
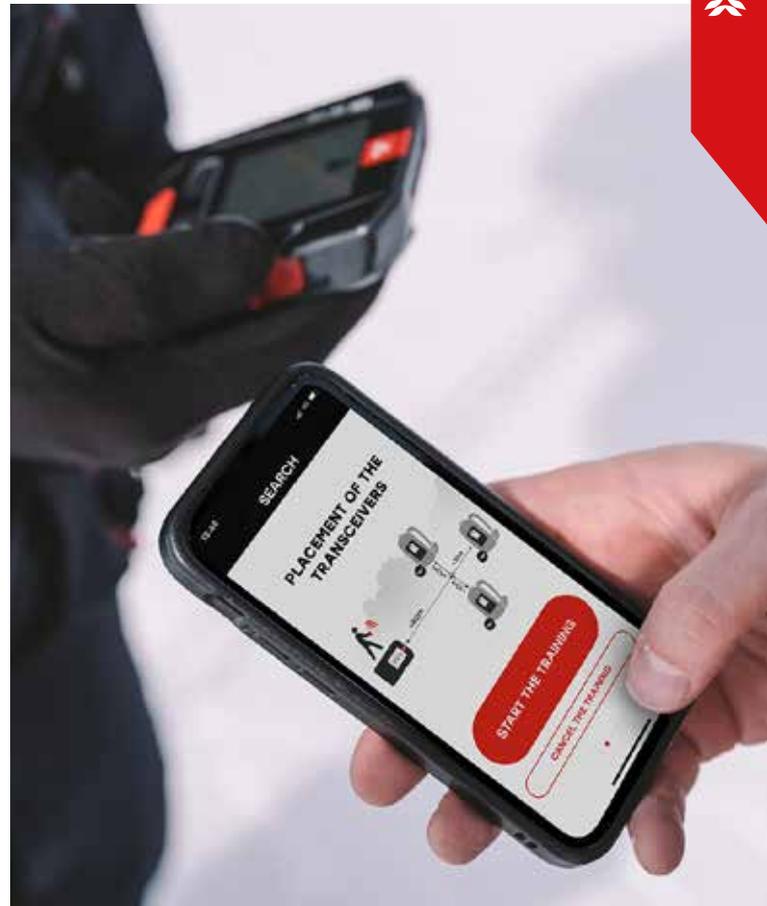
CONNECTING TO THE ARVA APP

- Flash the QR code with my camera
- Download the ARVA app
- Register my transceiver product
- Switch on the transceiver by pressing marking to activate Bluetooth
- Connect my transceiver to the app
- Configure my transceiver

For more information, visit:
Profile > My Registered Devices > Settings

— Devices comparison

	EVO4	EVO5	NEO BT PRO
Antennas	3	3	3
Signal	Digital	Digital	Digital & Analog
Search strip width in digital mode	40m	50m	80m
Maximum range in avalanche			90m
Auto check	⊘	⊘	⊘
Group check (frequency control)	⊘	⊘	⊘
Marking function	⊘	⊘	
Mutiple victim indicator	3+	3+	4+
Revert to transmit	⊖	Timer (8min)	Sensor
Interference management	⊖	⊘	⊘
U-turn alarm	⊖	⊘	⊘
Standby mode	⊖	⊖	⊘
Scrolling function	⊖	⊖	⊘

— AFTER SALES SERVICE

REMINDER: no product shall be exchanged without the explicit agreement of SAV service. Unless requested by **NIC-IMPEX**, shipping is the responsibility of the retailer - distributor.

— WARRANTY

ARE GUARANTEED FOR 2 YEARS (proof of purchase).
Extension to 5 years after registration of the product on the site.

SELLER'S ADVICE

‖ REVISION OF YOUR TRANSCIEVER

Please submit your beacon service request online, directly on our web site www.arvaequipment.com/en by following the below access :

SUPPORT > SERVICE AND REVISION > Then select the item category requested, and complete the form.

	REVISION
"Pro" or "Semi-pro" usage for 60 days' activity per year	Every 2 years
"Pro" or "Expert User" usage for 20 to 60 days' activity per year	Every 3 to 4 years
"Classic" usage Fewer than 20 days per year	Every 5 to 8 years

PRICE OF REVISION (Return delivery fees included)

Winter season (01/09 to 28/02) -
€20.00 net of taxes/€24.00 incl. all taxes
Summer season (01/03 to 31/08) -
€16.00 net of taxes/€19.20 incl. all taxes

PRICE OF REPAIRS :

EVO4 : **60,00€ HT / 72,00€ incl. all taxes**
NEO/EVO5 : **65,00€ HT / 78,00€ TTC incl. all taxes**
AXIO / AXIS / LINK / PROW : **75,00€ HT / 90,00€ incl. all taxes**

EVO4 HOLSTER

The EVO4 holster is designed for you to more efficiently and effectively use your avalanche transceiver. The EVO4 ON/OFF button keeper cord allows the user to easily clip their device to the holster. Sling the holster over your left or right shoulder depending on personal preference.

Le holster EVO4 a été conçu pour permettre une utilisation optimale de l'appareil. Le cordon de connexion du bouton ON/OFF EVO4 permettra à l'utilisateur de rattacher facilement son appareil au holster. Ce holster peut être porté avec la sangle d'épaule positionnée à droite ou à gauche selon le choix de l'utilisateur.

EVO4 HOLSTER

The EVO5 holster has been designed to allow optimal use of the device. The EVO5 connection cord with a carabiner allows the user to to easily attach the device to the holster. The waist strap can be disconnected from the holster and turned into a belt.

Le holster EVO5 a été conçu pour permettre une utilisation optimale de l'appareil. Le cordon de connexion EVO5 équipé d'un mousqueton permettra à l'utilisateur de connecter facilement son appareil au holster. La sangle ventrale peut être déconnectée du holster pour se transformer en ceinture.

NEOBT PRO HOLSTER

The NEO BT PRO holster is designed for optimal use of the device. Its form-fitting design and easy-to-use connection cord make this holster the perfect partner for to the NEO BT PRO.

Le holster NEO BT PRO a été conçu pour permettre une utilisation optimale de l'appareil. Un profil étudié pour épouser la morphologie de l'utilisateur ainsi qu'un cordon de connexion facile à utiliser font de ce holster le compagnon indispensable du NEO BT PRO.

— Safety pack

NEW PRODUCT

PACK SAFETY BOX EVO4

This rescue set, intended for both novices and experts, includes an EVO4 transceiver, an ACCESS 240 probe, and an ACCESS shovel.

Pack secours destiné aux pratiquants néophytes à réguliers intégrant un EVO4, une sonde ACCESS 240 et une pelle ACCESS.

NEW PRODUCT

PACK SAFETY BOX EVO5

Compact snow-safety set that includes an EVO5 transceiver, an ACCESS TS shovel, and a SPARK 240 probe.

Pack secours format compact intégrant un EVO5, une sonde SPARK 240 et une pelle ACCESS TS.

NEW PRODUCT

PACK SAFETY BOX SKITRIP

Snow-safety set for skiers and snowboarders who just love to travel, it includes an EVO5 transceiver, a SKI TRIP shovel, and a SKI TRIP probe.

Le pack des skieurs et snowboardeurs amateurs de voyage, intégrant un EVO5, une sonde SKITRIP et une pelle SKITRIP.

NEW PRODUCT

PACK SAFETY BOX PRO

Snow-safety set for mountain professionals, intended for patrollers, guides, and all those who love winter exploration.

Le pack secours du professionnel de la montagne, dédié aux pisteurs, guides et afficionados de l'exploration hivernale.

— Pièces détachées

E/R BUTTON EVO4	ON / OFF EVO4	ON / OFF NEO	BATTERY COVER EVO4

All the spare parts are avaible on our website :
www.arva-equipment.com
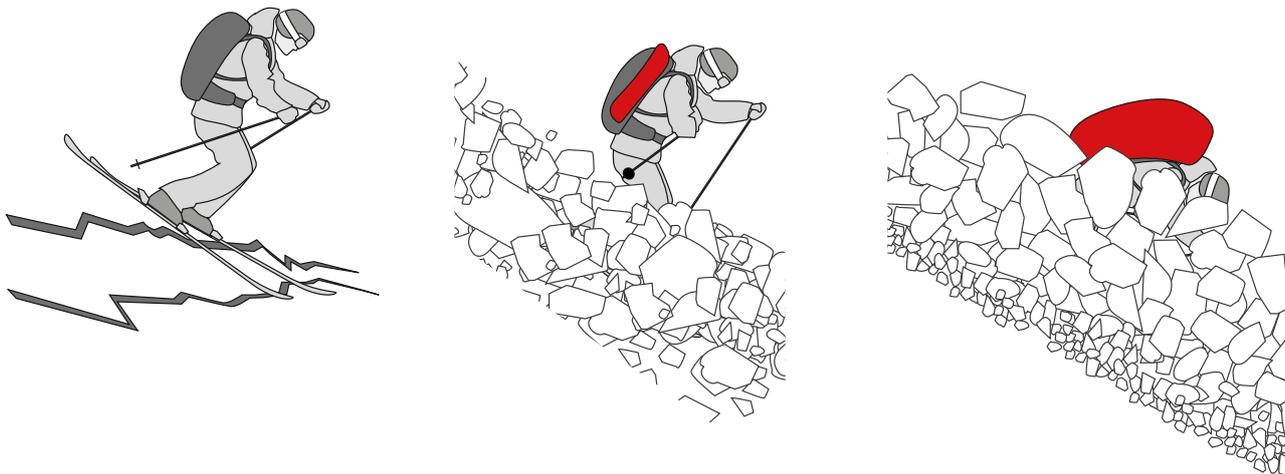
REACTOR
AIRBAG
# BACKPACKS

1 WHAT IS AN AIRBAG BACKPACK ?

The airbag system is a new standard in safety equipment, allowing a person to stay above an avalanche, and meant to be combined with use of a beacon, probe, and shovel. The principle use increases a victim's volume by inflating an airbag aound the backpack. The system is equipped with a simple lockable/rotating handle, when pulled for deployment, fills the airbag in just a few seconds. This airbag is brought to the surface of snow based on the physical phenomenon of «reverse segregation» which consists of pushing up lighter volumes among a multitude of moving particles.

LARGE PARTICLES REMAIN ON THE SURFACE.
A basic principle of physics: particles in movement separate and the largest particles tend to rise to the surface. This is exactly what happens in an avalanche. To avoid being pulled beneath the surface of the avalanche, you have to increase your body volume by 1.5 times. The 160 additional liters provided by a deployed Reactor Airbag generates the necessary accessional force to remain on the surface.

2 OPTIMAL BODY POSITION IN AN AVALANCHE

SINGLE AIRBAG

DUAL AIRBAG
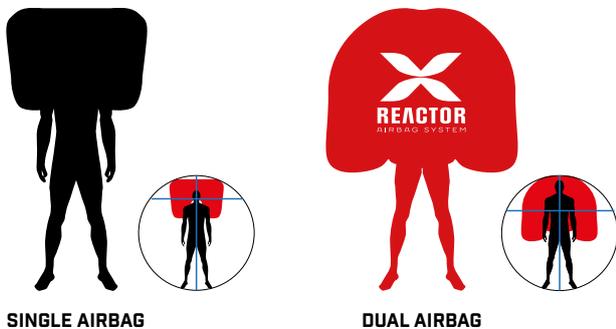
The Reactor's two airbags are fastened via 7-attachment rods sewn around the pack. This maintains the body's natural center of gravity to ensure that the rising force is applied to your entire body. The Reactor is designed to place the person caught in an avalanche in a horizontal position on the upper part of the mass of moving snow. The flatter a person is along the avalanche surface, the less they will be subject to the huge dynamic forces present within the avalanche. This considerably reduces the risk of injury.

3 TWO AIRBAGS. TWICE AS SECURE
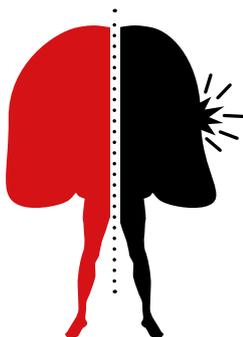
A Reactor backpack is equipped with two airbags separated by an internal divider, creating two independent airbag for increased reliability. Both inflate simultaneously and each has its own independent intake valve.
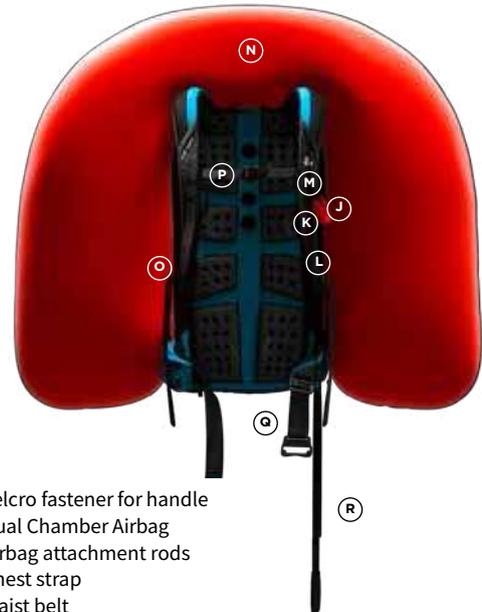The advantage: if one of the two 80-liter airbags is damaged, the second will remain inflated long enough, maintaining the backpacks effectiveness.

— Airbag components

A Airbag compartment	**G** Activation pin	**M** Velcro fastener for handle
B 3D-Fit adjustment system	**H** Compressed gas cylinder	**N** Dual Chamber Airbag
C Reactivation key	**I** Red activating mechanism	**O** Airbag attachment rods
D Release clamp	**J** Trigger handle	**P** Chest strap
E Upper Velcro flap	**L** Handle connector	**Q** Waist belt
F Suction and air intake unit	**K** Attachment slots for handle connector	**R** Leg loop

SELLER'S ADVICE
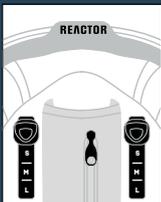
L   **M**   **S**
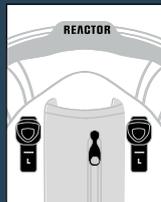
❚ ONE SIZE FITS ALL

🇬🇧 **Our 3D-FIT technology allows you to optimally adjust to your REACTOR avalanche airbag backpack:**
• Adjust shoulder strap length,
• Adjust torso length,
• Adjust trigger handle position.

🇫🇷 **La technologie 3D fit vous permet un réglage optimal de votre sac airbag reactor :**
• Longueur des bretelles
• Longueur de dos
• Hauteur de la poignée

Die 3D-Fit-Technologie ermöglicht eine optimale Anpassung des Reactor-Airbags:
• Länge der Schulterträger
• Länge der Rückenpartie
• Höhe des Griffs

Installing the cylinder

Before you install the cylinder, verify its weight without the safety cap. A +/-5g margin relative to the reference weight printed on the cylinder label is acceptable.

Check that there is no dirt or other particles obstructing the puncture unit before screwing in the cylinder.

If the difference is more than 5g, do not use the cylinder and contact your local ARVA dealer or distributor for a replacement.

If the weight is validated and the trigger handle is in a locked position, screw the cylinder into the puncture unit until it comes up against the end stop. There should not be any space between the cylinder and the red trigger mechanism.

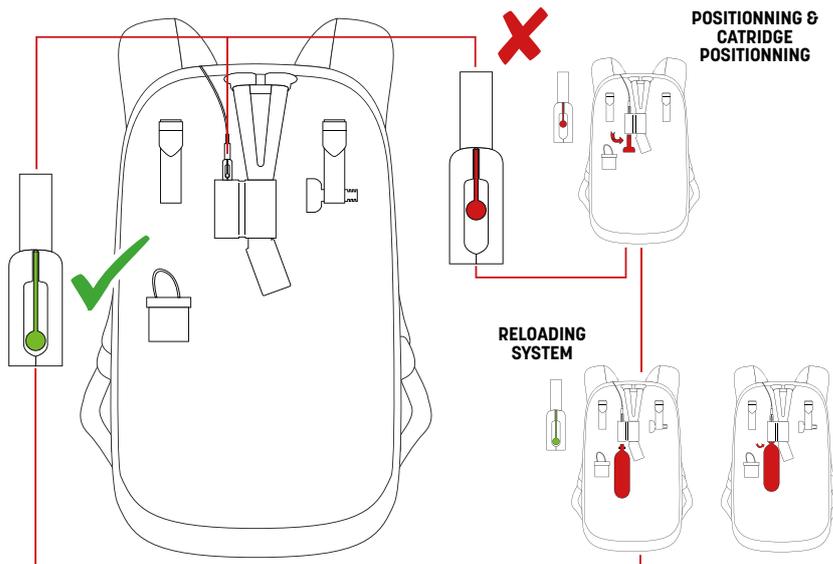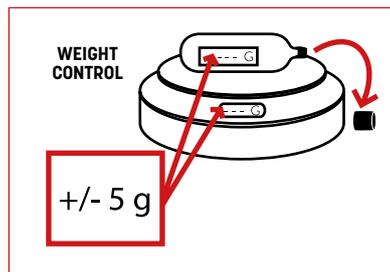Once the bottle is screwed, make sure you close the mesh protection cover. The mesh cover should only contain the inflation system and the cylinder.

POSITIONNING & CATRIDGE POSITIONNING

RELOADING SYSTEM

Reloading the cylinder

WEIGHT CONTROL

+/- 5 g

Before screwing on the cylinder, check that the activation mechanism is set and in the activated position. To do this, check that the activation pin located above the red activation mechanism is placed next to this mechanism (less than 1mm).

If this is not the case, introduce the reactivation key into the puncture unit and tighten until the pin is positioned against the red activation mechanism.

Adjusting and fitting the pack

The Reactor pack includes a 3D-Fit adjustment system that allows users to adjust back height, shoulder strap length, and the position of the trigger handle in just one pull. Inside the pack are two straps with S, M, and L indicated. Adjust to your body size.

Next, put on the pack. Buckle and adjust the waist, chest, and leg straps. These straps are crucial to securing the pack on the user during an avalanche. Last, adjust the shoulder straps.

SIZE SETTING
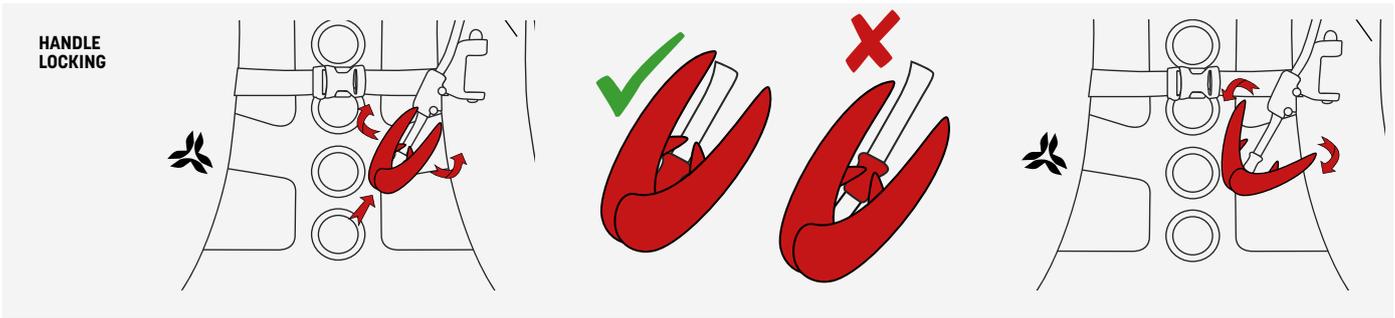
Using the handle

HANDLE LOCKING

In safe areas, lock the Reactor trigger handle by holding onto the shoulder strap with one hand, and by holding the handle like a pair pliers in the other hand before folding it upwards.

For the handle to lock in properly, make sure that internal notches clip above the locking ring. If this is not the case, push the handle up in order to lock it into position.
In avalanche terrain, hold a finger beneath the handle and release it with both hands until fully open.

Deflating & storage
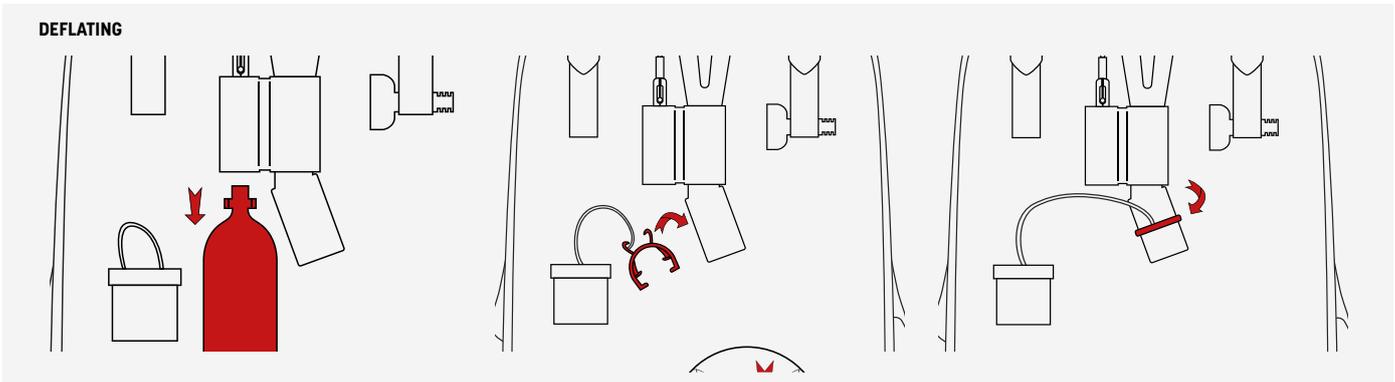
DEFLATING

IN A SAFE ZONE :
1/Unscrew the gas cylinder

2/Place the release clamp on either side of the air intake valve.

Make sure that the airbags are completely dry before packing them back into their compartments. If they are still wet, hang the pack with the empty airbags still unfolded until they are completely dry.
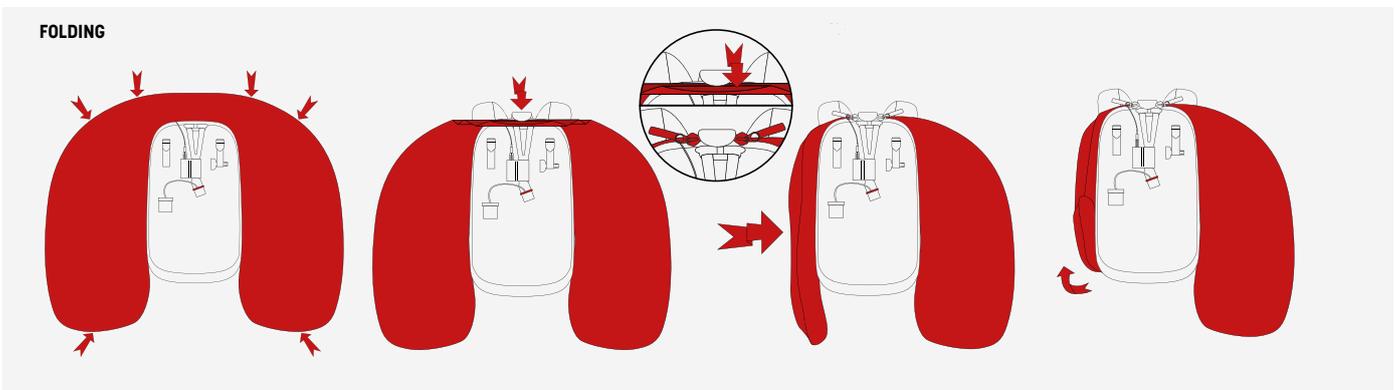
FOLDING

3/Press on the airbags to deflate until empty.

4/Press the airbag compartment sliders downwards as far as possible to separate both sides from the slide fastener. Bring the sliders to the top of the bag and begin folding, as shown in the diagrams.

5/At first. create 3 folds, like an accordion, with the upper part of the airbags, in order to fasten the Velcro. Then, engage the 2 sliders in turn, by pinching them with 2 fingers and close the zips at 5cm, then close the upper Velcro tongue.

6/Carry on folding the rest of the airbags as shown in the illustrations, then close the 2 slide fasteners to the bottom of the bag.

CAUTION: In order to ensure optimum inflation performance, it is important to fold the airbags in successive folds in reverse (like an accordion) into the pockets and not roll them up.

7/REMOVE THE PURGE CLAMP FROM THE GRILLS and store it in the pocket provided inside the bag.
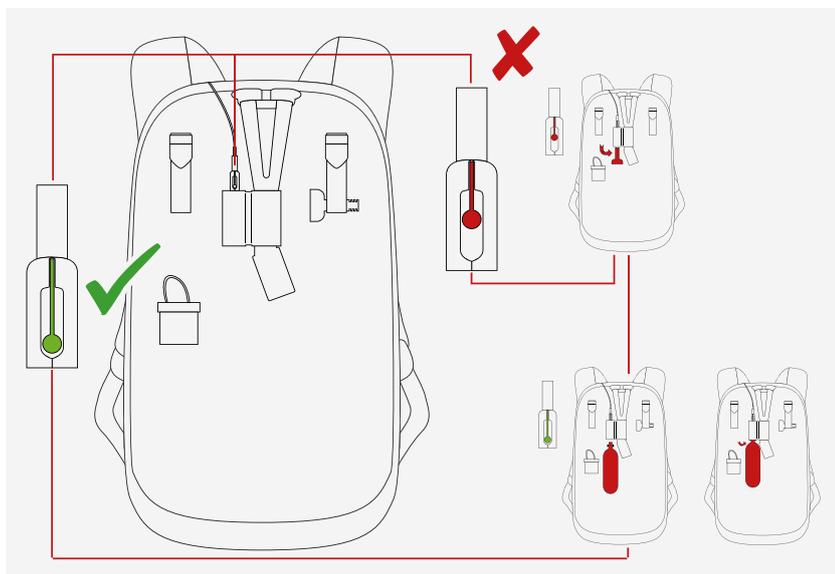
8/ Before screwing on the cylinder, check that the activation mechanism is set and in the activated position. To do this, check that the activation pin located above the red activation mechanism is placed next to this mechanism (less than 1mm).

If this is not the case, introduce the reactivation key into the puncture unit and tighten until the pin is positioned against the red activation mechanism.

Training
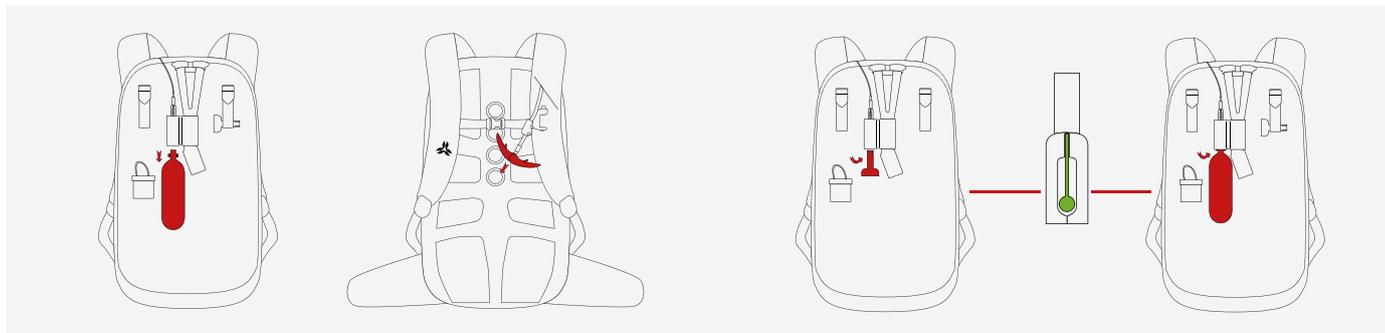
You can practice without actually having to deploy the airbags by simply removing the cylinder from the puncture unit and pulling on the trigger handle. After each practice session, remember to reactivate the trigger system using the reactivation key designed for this purpose.

TO BECOME FAMILIAR WITH DEPLOYING THE REACTOR, WE RECOMMENDED THAT YOU PRACTICE PULLING ON THE TRIGGER HANDLE.

— Traveling by plane

PROVISIONS FOR DANGEROUS GOODS CARRIED BY PASSENGERS OR CREW (SUBSECTION 2.3)

Non-flammable and Non-toxic Gases (Class 2.2)

Dangerous goods must not be carried in or as passengers or crew, checked or carry-on baggage, except as otherwise 2 provided below. Dangerous goods permitted in carry-on baggage are also permitted "on one's person", except where otherwise specified.)

Avalanche rescue backpack, one (1) per person, containing a cartridge of compressed gas in YES

YES YES NO Div. 2.2. May also be equipped with a pyrotechnic trigger mechanism containing no more than 200 mg net of Div. 1.4S. The backpack must be packed in such a manner that it cannot be accidentally activated. The airbags within the backpacks must be fitted with pressure relief valves.

- **Permitted in or as carry-on baggage**
- **Permitted in or as checked baggage**
- **The approval of the operator is required**

- Avalanche rescue kits fall in the category of "dangerous goods" for the International Air Transport Association (IATA) due to the pressurized gas cylinder.

- The system should be packed in such a way as to avoid accidental deployment. The airbags should be equipped with emergency valves.

- Passenger transport of dangerous goods is only authorized for a restricted list of products. The Reactor is on this list. This list appears in IATA regulations for airline transport of dangerous goods. Most airlines comply with IATA regulations.

- In theory, the Reactor can be transported as carry-on or checked luggage. We recommend transporting it as checked luggage.

- Prior approval from the airline is required.

- We recommend calling the airline before departing and providing them with this document as well as the technical notice describing the contents of the cylinder and trigger. The airline will then be able to check IATA regulations to verify that the product corresponds to the description.

Cylinder	Steel	Carbon
Capacity	200 mL	250 mL
Gaz	Argon	Nitrogen
Filling pressure	300 bar	300 bar
Test pressure	450 bar	450 bar
Weight	390 g	240 g

ONLY REACTOR CANISTERS ARE MADE FOR REACTOR SYSTEM.

NIC-IMPEX CANNOT BE HELD RESPONSABLE FOR A MALFUNCTION OF A CYLINDER INSTALLED IN ANOTHER SYSTEM

EU	USA
ARGON, COMPRESSED, UN 1006 Produced : 2016 Final : 2026 EN9809-1 D	ARGON, COMPRESSED, UN 1006 Produced : 2017 Final : 2027 EN9809-1 D
NITROGEN, COMPRESSED, UN 1066 Standard ISO 11119-3:2002	NITROGEN, COMPRESSED, UN 1066 Produced : 2017 Final : 2027 Standard ISO 11119-3:2002

The documents are avaible for download www.arva-equipment.com.

— Warranty

ARVA REACTOR BACKPACKS HAVE A 2-YEAR WARRANTY STARTING ON THE DATE OF MANUFACTURE.

Extend to 3 years by registering the airbag via the website.

— After sale service

REMINDER: no product shall be exchanged without the explicit agreement of SAV service. Unless requested by NIC-IMPEX, shipping is the responsibility of the retailer - distributor.

— Maintenance

SERVICING INCLUDES A 13-POINT INSPECTION:

- Harness system inspection
- Activation system inspection
- Accessories inspection
- Activating the mechanism when empty
- Lubricating the mechanism
- Air intake valve inspection
- Breakaway zipper inspection
- Airbag, folds, and attachments inspection
- Inflating the airbag
- Inspecting the airbag's overall airtightness, wear and tear, as well as the attachments
- Inspect airtightness of both airbags
- Folding the airbag

The time to service your backpack varies from a few days to 3 weeks once the product is received at Nic Impex.

Servicing your **REACTOR** backpack is not a legal obligation. However, since it is a safety device, we recommend sending it in on a regular basis for servicing.

This basic inspection can be conducted by the user. We offer two service packages if you would like our experts to inspect your backpack: Essential and Premium.

Please submit your airbag service request online, directly on our web site www.arvaequipment.com/en by following the below access:

SUPPORT > SERVICE AND REVISION > Then select the item category requested, and complete the form.

COST OF REPAIR (SHIPPING COSTS INCLUDED)

WINTER (sept-march) -
ESSENTIAL - 17.5 € ex-VAT
PREMIUM - 35 € ex-VAT

Saison été (avril-Aout) -
ESSENTIAL - 14 € ex-VAT
PREMIUM - 28 € ex-VAT

PREMIUM maintenance includes an airbags deployment

	ESSENTIAL	PREMIUM
Usage more than 30 days' activity per year or more	Every year	Every 3 years
Usage for up to 30 days' activity per year	Every year	Every 4 years

SELLER'S ADVICE

|| MAINTENANCE PROCEDURES AND FREQUENCY

Since the Reactor is a piece of safety equipment, you should inspect it on a regular basis. We recommend conducting the following verifications at least once per year:

- Check the cylinder weight without the safety cap, with a +/-5g tolerance relative to the reference weight.

- Check that there is no dirt or other particles obstructing the puncture unit before screwing in the cylinder.

- Practice pulling the trigger without a cylinder to check that the activation mechanism works properly, and then reset the activation mechanism using the reactivation key.

- Screw the cylinder into the puncture unit to the end stop. There should be no noticeable resistance.

- Unfold the airbags, check their condition, and then fold them back up. They should be completely dry before refolding.

- Inspect the condition of the airbag attachments to the pack and the rods to the airbags.

- Check that the 7 airbag attachment rods are properly placed in their sheaths.

- Inspect the pack harness system that includes the waist, chest, and leg straps and buckles, as well as the shoulder straps.

Every three years we recommend conducting a practice deployment, including fully deploying the airbags. To do this, follow the detailed instructions.

If you encounter any problems or have any doubts about the condition of your Reactor pack and system, please contact your local ARVA dealer or distributor.

If you deploy your airbag in an avalanche, it is important to send your Reactor Airbag backpack in for inspection and maintenance.
To insure that this safety measure is taken, Nic-Impex will perform the inspection, maintenance, and bottle refill for free for customers who have deployed their airbag in a real avalanche.

— Transferable system

It is possible to easily transfer the **REACTOR** system from one volume to another.
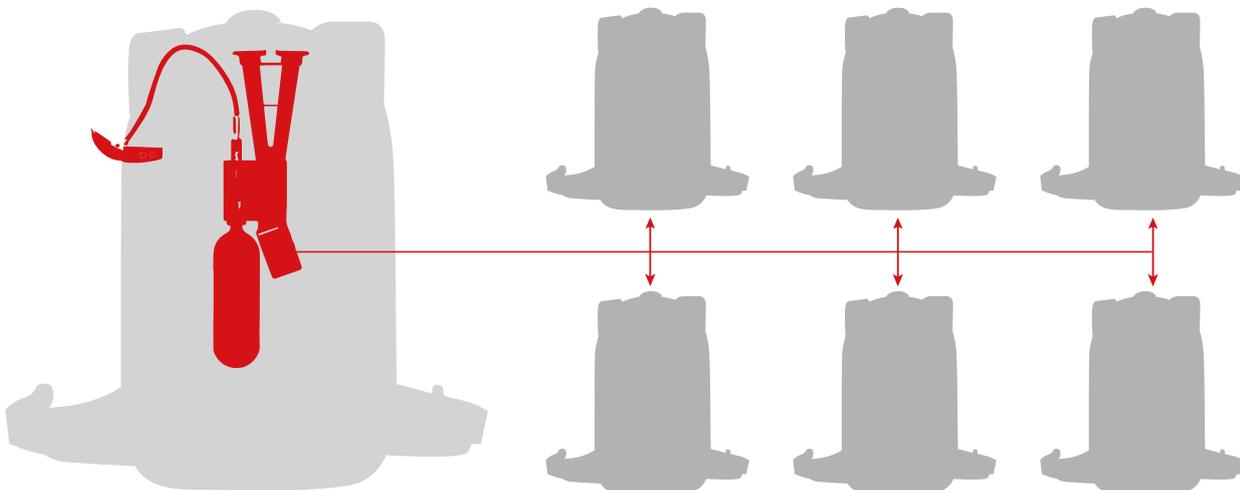
Switch
780g

Versatile
Light
Compact
Touring
Free touring

Low
Profile
technology

ST26 Swtich Pocket   ST30 Switch Pocket   Tour25 Switch Pocket   Tour32 Switch Pocket   Tour40 + 10 Switch Pocket

Flex
1040g

Strong
Confortable
Multi-use
Intensive use Pro

Side
Profile
technology

R18 Pro Flex   R 24 Pro Flex   R 32 Pro Flex   R 40 Pro Flex

	R18Pro Flex	R24Pro Flex	R32Pro Flex	R40Pro Flex	R35blast	ST26 Switch	ST30 Switch
Capacity (L)	18L	24L	32L	40L	35L	26L	30L
Bag with system (g)	2120	2120	2170	2210	2090	1880	1960
Bag+system+carbon canister (g)	2440	2440	2490	2530	2330	2200	2280
Bag+system+steel canister (g)	2610	2610	2660	2700	2500	2370	2450
Bag + System + US Steel canister (oz)	93.4	93.4	95.3	96.6	92.4	91.7	91.7
Modularity	Flex	Flex	Flex	Flex	Flex	Switch	Switch

	TOUR25 Switch	TOUR32 Switch	TOUR40 Switch	TOUR25 UL	Calgary 18	R15Vest
Capacity (L)	25L	32L	40L	25L	18L	15L
Bag with system (g)	1660	1810	1950	1280	1780	2160
Bag+system+carbon canister (g)	1980	2030	2270	1600	2100	2480
Bag+system+steel canister (g)	2150	2200	2440	1770	2270	2650
Bag + System + US Steel canister (oz)	77.2	79.1	87.47	63.84	81.48	94.8
Modularity	Switch	Switch	Switch	Solid	Solid	Solid

Airbag System
Weight (g) 680g

— Backpacks range

	TOUR20	TOUR25	TOUR32	ST26	ST30
Colors	(swatches)	(swatches)	(swatches)	(swatches)	(swatches)
Volume	20L	25L	32L	26L	30L
Weight	630g	760g	860g	1140g	1200g
Safety pocket	✓	✓	✓	✓	✓
H2O sleeve	✓	✓	✓	✗	✗
Diagonal ski	✓	✓	✓	✓	✓
A-frame ski	✗	✓	✓	✓	✓
Snowboard	✗	✗	✓	✓	✓
Ice axe	1	2	2	2	2
Belt pocket	1	2	2	0	2
Helmet holder	Compatible	✓	✓	Compatible	Compatible

	Rescuer25Pro	Rescuer32Pro	Calgary18	Calgary20	Calgary24	Calgary26
Colors	(swatches)	(swatches)	(swatches)	(swatches)	(swatches)	(swatches)
Volume	25L	32L	18L	20L	24L	26L
Weight	1000g	1180g	650g	950g	990g	1020g
Safety pocket	Sleeves	Sleeves	✓	✓	Loops	✓
H2O sleeve	✓	✓	✗	✓	✓	✓
Diagonal ski	✓	✓	✗	✗	✓	✗
A-frame ski	✓	✓	✓	✓	✓	✓
Snowboard	✓	✓	✓	✓	✓	✓
Ice axe	1	2	0	1	1	1
Belt pocket	2	2	0	2	2	1
Helmet holder	Compatible	Compatible	Compatible	✓	✓	Compatible

SHOVELS

Odds of survival when buried
Chance de survie pour une personne ensevelie

18min ⟶ 91%
35min ⟶ 34%
60min ⟶ 30%

Rescue times based on equipment used
Temps de dégagement avec les différents équipements

 + + ⟶ 11 min

 + ⟶ 25 min

 ⟶ 60 min

Avalanche accidents with one or more victims
Avalanches avec une victime ou plus

⟶ 78%
⟶ 13%
⟶ 7%
⟶ 2%

Easy-insert shaft notch

Shaft Stopper

Low profile, fits in a backpack pocket

Double line welding

Optimized snowpack shape

ST
SKI
TRIP

■ EXPORT DEPARTMENT

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sports & outdoor equipment

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