



# TECH-AIR<sup>®</sup> 5

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Training Document

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# INTRODUCING THE

ALL-NEW

**TECH-R5**

**AUTONOMOUS AIRBAG SYSTEM  
COMPATIBLE WITH ANY MOTORCYCLE JACKET  
FOR UNRIVALED UPPER BODY PROTECTION**

# Tech-Air<sup>®</sup> 5 Airbag Key Features

- **FULLY AUTONOMOUS and INTEGRATED ELECTRONIC AIRBAG SYSTEM**
- **LARGEST PROTECTION AREA AVAILABLE IN THE MARKET TODAY**
- **ELECTRONIC CONTROL UNIT WITH 6 INTEGRATED SENSORS**
- **ADVANCED PREDICTIVE ALGORITHM DEVELOPED BY ALPINESTARS**
- **TWIN PYROTECHNIC GAS CANISTERS INFLATION SYSTEM**
- **PROTECTION AHEAD OF THE FIRST IMPACT**
- **NOT CONNECTED TO MOTORCYCLE AND GARMENT**
- **NO GPS SIGNAL NEEDED**
- **INTEGRATED CE-LEV.1 BACK PROTECTOR**





## ■ LIGHT WEIGHT AND HIGHLY VENTILATED

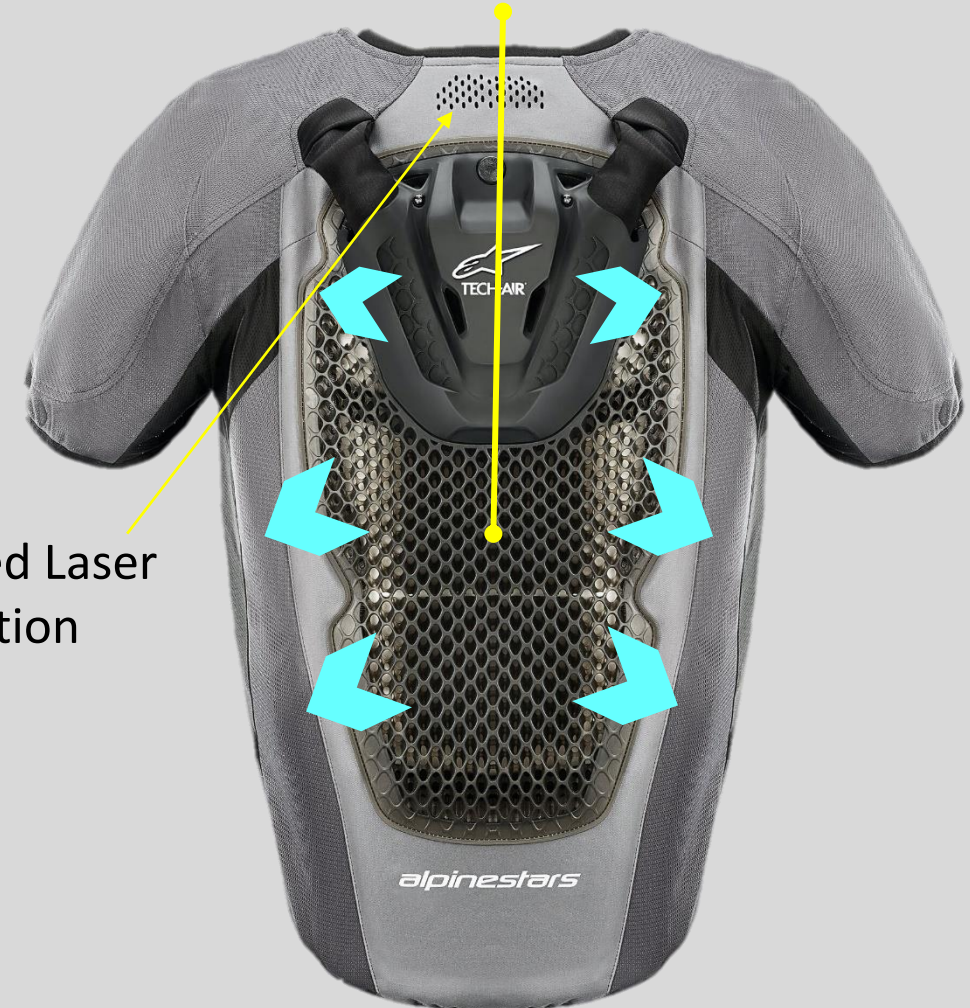
Lightweight  
mesh  
structure

“Air Channel”  
technology  
internal panel



Localized Laser  
perforation


Thin, flexible, super-ventilated  
“CELL” technology passive back protector  
CE certified Level 1



alpinestars

# KEY FEATURES

**TECH AIR 5**  
AIRBAG SYSTEM

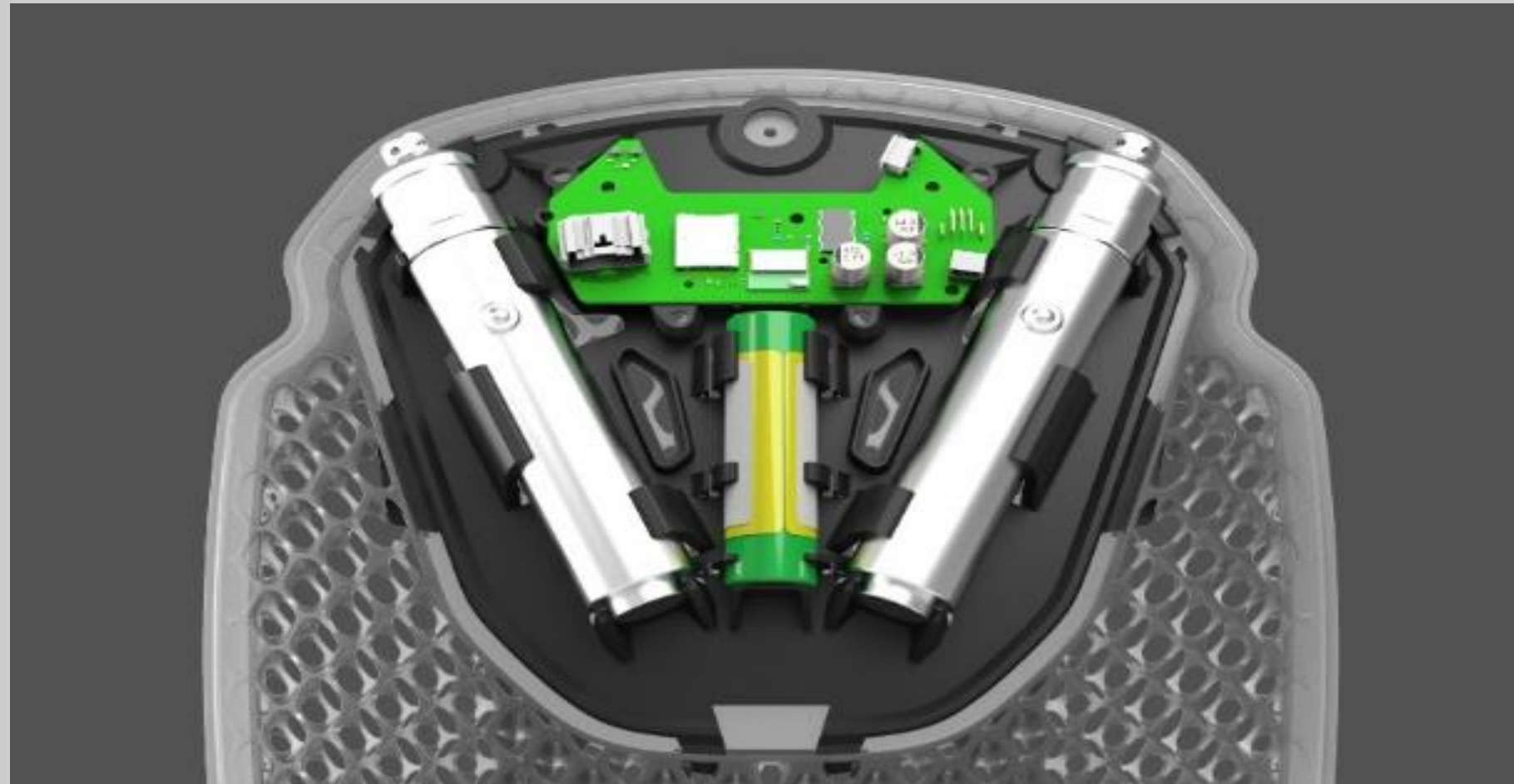
- EASY, FAST MAGNETIC FLAP SWITCH FOR SYSTEM ACTIVATION
- INTEGRATED LED DISPLAY
- BLUETOOTH INTEGRATION 



MAIN ZIPPER WITH  
MAGNETIC  
CONNECTION



- **LONG-RANGE LITHIUM BATTERY**
- **> 30 HOURS OF ACTIVE RIDING WITH ONE CHARGE**



# Tech-Air<sup>®</sup> 5 Airbag System Coverage and Protection



**ALPINESTARS TECH-AIR<sup>®</sup> 5 PROVIDES THE LARGEST COVERAGE OF ANY AIRBAG AVAILABLE ON THE MARKET TODAY**



FRONT VIEW

- **SHOULDERS + COLLARBONES**
- **UPPER ARMS**
- **CHEST AND RIBS**
- **ENTIRE BACK**
- **CHEST SIDES**



BACK VIEW

PROTECTION AHEAD OF FIRST IMPACT  
and STATIONARY PROTECTION

**TECH AIR 5**  
AIRBAG SYSTEM

**ALPINESTARS TECH-AIR 5® IS THE ONLY AIRBAG SYSTEM  
THAT PROTECTS **AHEAD** OF THE FIRST IMPACT.**

**TECH AIR BAG**

**TECH AIR BAG**  
MS1114AL

**TECH-AIR 5® IS ALWAYS READY TO PROTECT ALSO IN CASE OF  
A REAR-END COLLISION WITH **STATIONARY** BIKE**

## PROTECTIVE

The impact absorption while wearing the airbag results in a decrease of the impact force by up to 95% compared to a passive protector. The Tech-Air<sup>®</sup> 5 airbag system offers the same protection as that provided by 18 back protectors.



**X 18**





Airbag System Versatility:  
Wear the Tech-Air® 5 with any Properly  
Fitting Motorcycle Jacket



## Tech-Air® 5 SYSTEM FITMENT

Wear the Tech-Air® 5 with any leather or textile jacket which has **4cm (1.6 inches) of room** around the entire circumference of rider's body

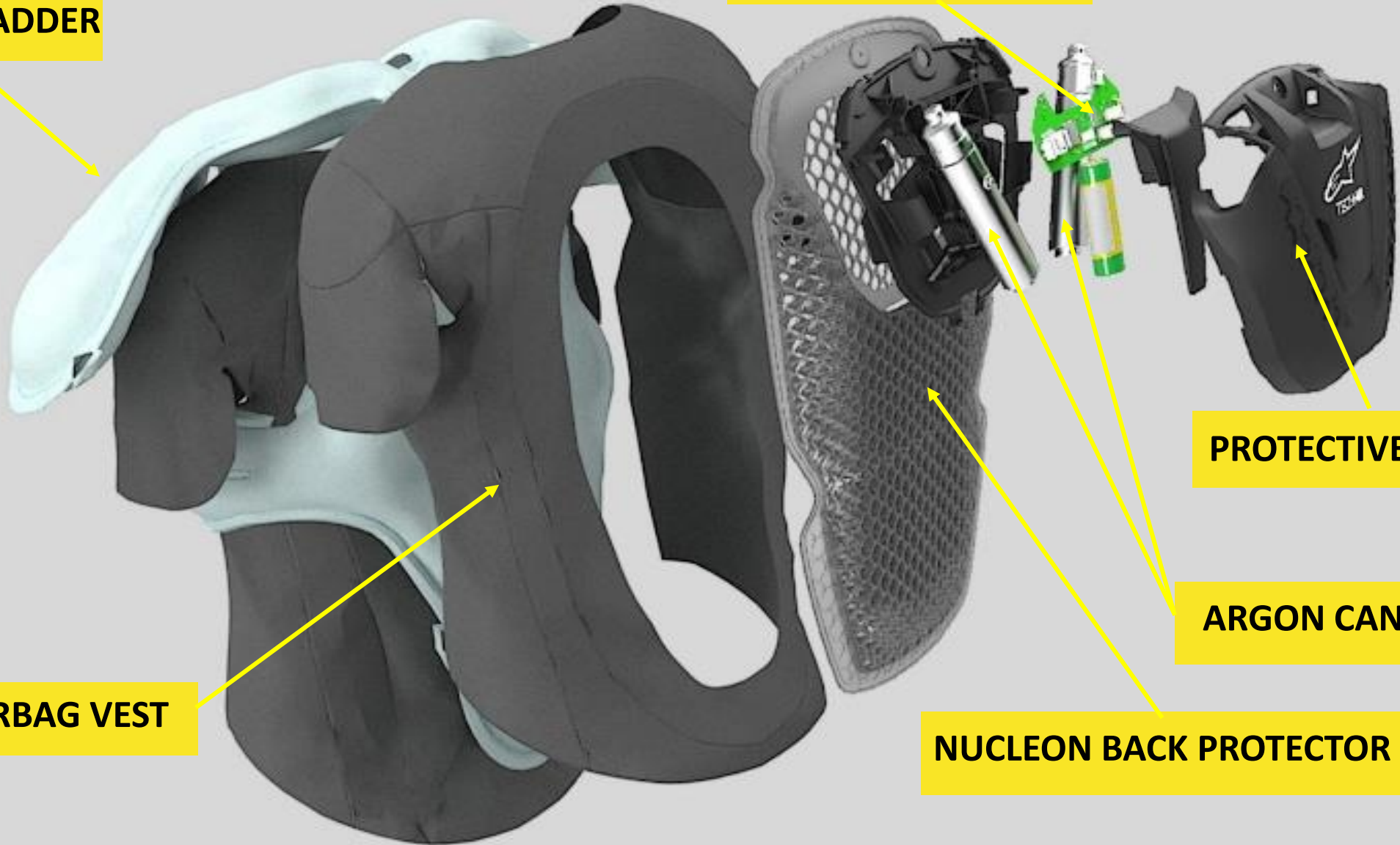
- COMPATIBLE WITH ANY ALPINESTARS TECH-AIR® READY JACKET AND/OR 1PC-2PC LEATHER SUIT
- ALPINESTARS TECH-AIR® READY GARMENTS DO NOT REQUIRE THE ADDITIONAL 4CM ROOM
- UNIVERSAL: COMPATIBLE WITH ANY JACKET (BRAND/MATERIAL) WITH AT LEAST 4CM OF ROOM AROUND THE BODY
- VISIT YOUR LOCAL DEALER TO TRY A SYSTEM ON TO DETERMINE IF YOUR JACKET FITS PROPERLY
- TECH-AIR® 5 MUST BE WORN IN CONJUNCTION WITH AN OUTER GARMENT
- TECH-AIR® 5 IS UNISEX. THERE IS NO SPECIFIC FEMALE VERSION
- 8 SIZES RANGING FROM XS TO 4XL
- FITMENT IS QUITE STANDARD AND SHOULD CORRESPOND TO YOUR REGULAR T-SHIRT SIZE
- IN MOST CASES, IT IS LIKELY YOU WILL NOT HAVE TO SIZE UP
- RIDERS ON THE UPPER END OF A SIZE OR IN BETWEEN SIZES, MIGHT NEED TO GO UP A SIZE



How Does the Tech-Air<sup>®</sup> 5 Airbag System Work?

AIRBAG BLADDER

THE BRAIN (ECU)



AIRBAG VEST

PROTECTIVE CASING

ARGON CANISTERS

NUCLEON BACK PROTECTOR

# HOW IT WORKS

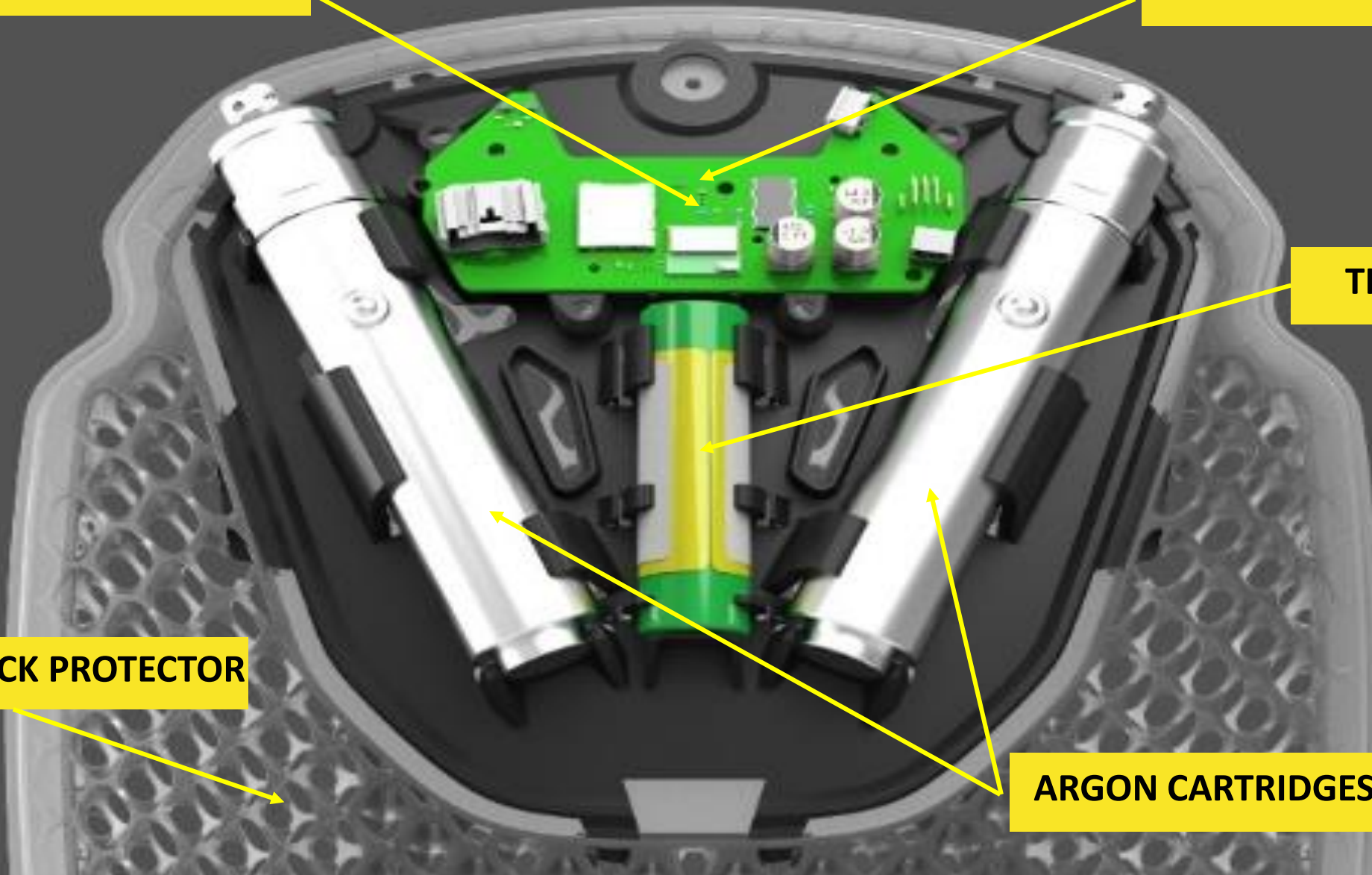
**ACCELEROMETERS & GYROSCOPES**

**THE BRAIN (ECU)**

**THE BATTERY**

**NUCLEON BACK PROTECTOR**

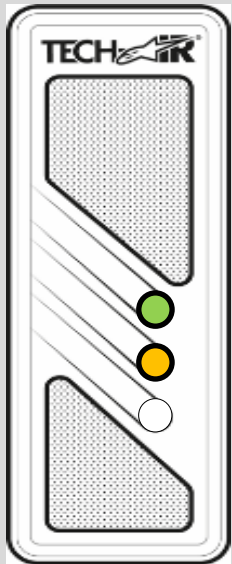
**ARGON CARTRIDGES**



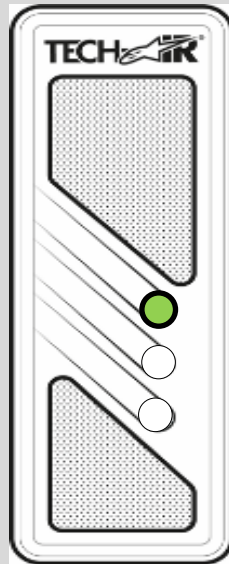


## BASIC DISPLAY MESSAGES

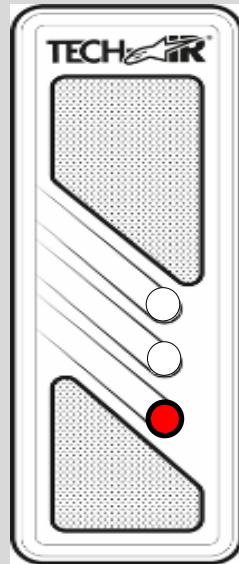
### SYSTEM STATUS



System in **stand-by**  
(rider not protected)

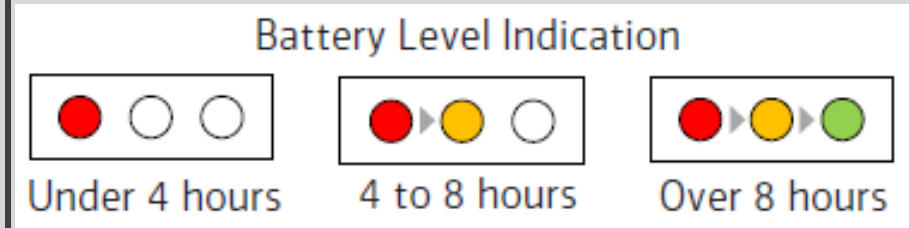


System **ACTIVE**  
(rider protected)



System **fired** or system **fault**  
(rider not protected)

### BATTERY LEVEL





### “STREET” RIDING MODE:

TECH-AIR 5 IS OPTIMIZED FOR STREET USE AND LIGHT OFF-ROAD RIDING

### “RACE” RIDING MODE:

TECH-AIR 5 IS OPTIMIZED FOR TRACK USE

- Through Tech-Air® Mobile App, you can easily switch between STREET and RACE riding modes.
- STREET software is the standard. RACE software is included free of charge.





1. Put on the system and close the Magnetic Zip Closure



2. Close the Front Flap



3. Check the LED display



4. Put on the Compatible garment





Alpinestars' Tech-Air<sup>®</sup> App for the Airbag System



- BLUETOOTH CONNECTIVITY
- SYSTEM AND BATTERY STATUS
- TRIP DIARY AND RIDE STATISTICS
- FREE SYSTEM SOFTWARE UPDATES
- RIDING MODES SWITCH
- EASY PRODUCT REGISTRATION
- AVAILABLE FOR ANDROID and APPLE iOS

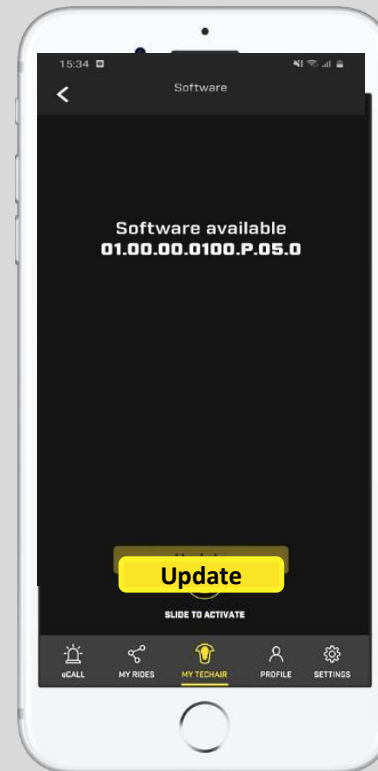
## UPDATING TECH-AIR<sup>®</sup> 5

Time Revolves.  
Tech-Air<sup>®</sup> 5 Evolves.

Alpinestars Tech-Air<sup>®</sup> Research Team is constantly working on the improvement of the algorithm, and on the development of new software versions.

Tech-Air<sup>®</sup> 5 is a constant EVOLVING PROTECTION TECHNOLOGY. And the Evolution is Free of charge.

- **Through Tech-Air<sup>®</sup> Mobile App, you can automatically and autonomously update your Tech-Air<sup>®</sup> 5 just clicking on the “UPDATE” button when a new software version is available.**
- **Tech-Air APP will notify the availability of a new software.**





# How to store the Tech-Air<sup>®</sup> 5 Airbag System



## Tech-Air<sup>®</sup> 5 STORAGE

BE SURE THAT THE TOP **FRONT FLAP OF THE MAGNETIC ZIP CLOSURE IS TUCKED AWAY** SO THAT THE SYSTEM DOES NOT TRY TO ACTIVATE THE AIRBAG



- 
- HANG THE VEST IN A COOL, DRY PLACE OUT OF DIRECT SUNLIGHT
  - WHEN STORING FOR LONG PERIODS OF TIME, STORE THE TECH-AIR® 5 IN ITS ORIGINAL PACKAGING OR STORE FLAT IN A DRAWER
  - BE SURE NOT TO PLACE HEAVY OR SHARP OBJECTS ON THE VEST WHEN STORING
-



# Servicing of Your Tech-Air® 5

FUNCTIONAL STREET 2023

# SERVICE OPERATIONS

## Inspection - 3PW230055900

Recommended every 2 years OR 500 working hours, whichever comes first. System is fully inspected and the vest is washed.

## Canisters-only Replacement - 3PW230055800

The airbag bladder is tested to withstand at least 3 deployments. After a deployment, it is possible to replace ONLY THE CANISTERS up to 2 system deployments. After each deployment, the integrity of the airbag bladder is in any case tested with a pressure test tool (“Integrity tester”).

At the 3<sup>rd</sup> deployment, a Full Service is always needed.

## Full Service - 3PW230055700

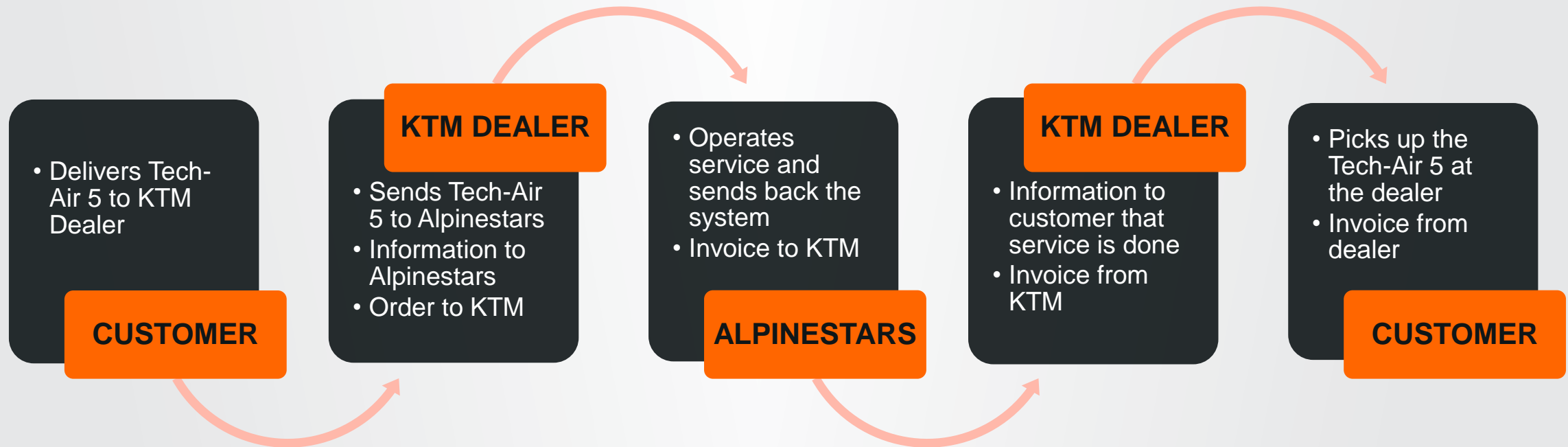
At the 3<sup>rd</sup> deployment, or after a negative integrity test, canisters AND airbag bladder are always replaced.



*Airbag integrity tester >*

FUNCTIONAL STREET 2023

# TECH-AIR 5 SERVICE PROCESS





FUNCTIONAL STREET 2023

# ALPINESTARS CONTACTS

For Dealers:

Deutsch: [p.support1@alpinestars.com](mailto:p.support1@alpinestars.com)

French: [p.support5@alpinestars.com](mailto:p.support5@alpinestars.com)

Spanish: [p.support@alpinestars.com](mailto:p.support@alpinestars.com)

Italian: [p.support@alpinestars.com](mailto:p.support@alpinestars.com)

English UK: [p.support4@alpinestars.com](mailto:p.support4@alpinestars.com)

For Customers:

[techairsupport@alpinestars.com](mailto:techairsupport@alpinestars.com)

Address for shipping:

**ALPINESTARS**

**Market Returns**

Via Vittime del Vajont, 14  
31031 CAERANO SAN MARCO (TV)  
Italy



# Tech-Air<sup>®</sup> 5 Airbag Key Features RECAP

### **PERFORMANCE**

- The largest airbag coverage providing unrivaled upper body protection
- Lightweight/compact design
- Integrated predictive crash detection algorithm
- Reduction of impact force by up to 95%
- Easy use and maintenance
- Dynamic crash monitoring 1,000 times/second

### **ELECTRONICS**

- Active airbag technology
- Fastest detection time
- Integrated sensors on Electronic Control Unit
- Bluetooth connectivity with Tech-Air<sup>®</sup> app
- Extended battery life of 30 hours

### **BACK PROTECTOR**

- The level of protection offered by the inflated airbag plus the Nucleon back protector together is equivalent to 18 CE Level 1 back protectors
- Light, flexible and highly ventilated for airflow

### **AUTONOMOUS SYSTEM**

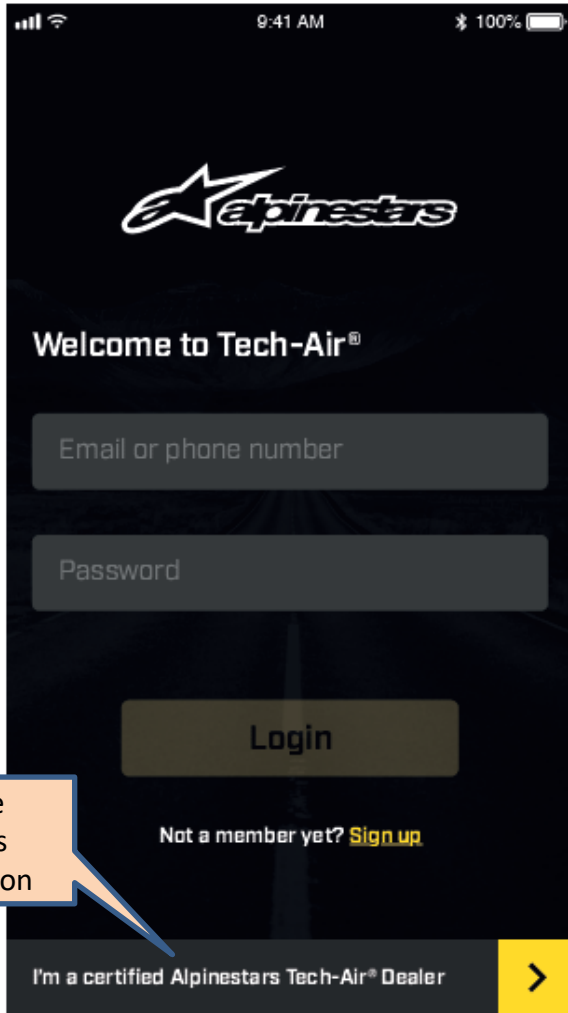
- Fully independent functionality
- LED display with integrated switch activation
- No connection to garment
- No tethers, or connections to the bike
- No GPS required for airbag deployment



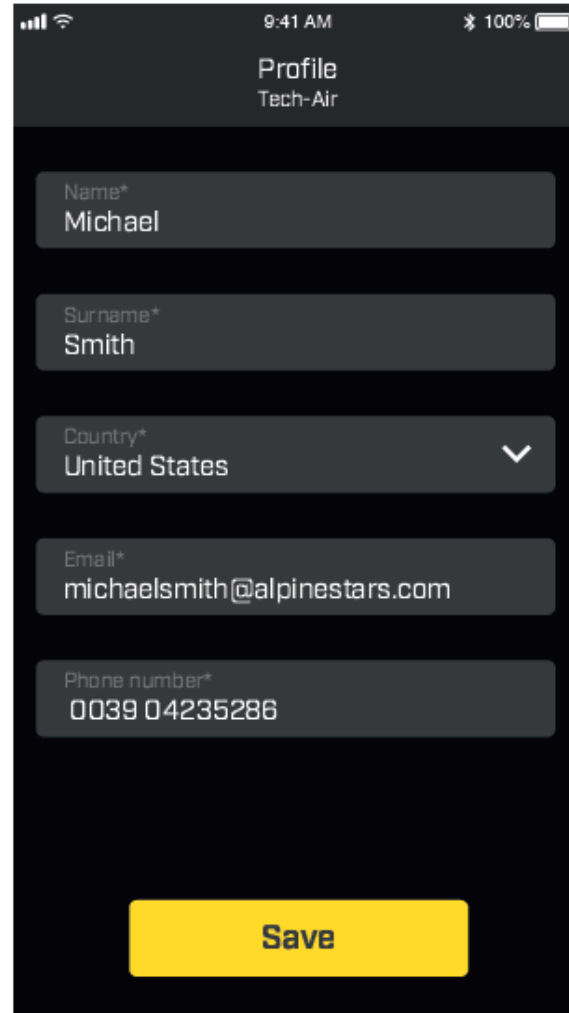
# Alpinestars' Tech-Air<sup>®</sup> App for the Airbag System: APP use reference guide

## User Registration

To have access to the Tech-Air<sup>®</sup> App, the user must log in or, if not, sign up. In order to configure the Tech-Air<sup>®</sup> App Bluetooth must be turned on within the user's mobile phone.



The screenshot shows the login screen of the Tech-Air app. At the top, there is the Alpinestars logo and the text "Welcome to Tech-Air<sup>®</sup>". Below this, there are two input fields: "Email or phone number" and "Password". A "Login" button is positioned below the password field. At the bottom, there is a link that says "Not a member yet? [Sign up](#)". At the very bottom, there is a footer that says "I'm a certified Alpinestars Tech-Air<sup>®</sup> Dealer" with a right-pointing arrow.



The screenshot shows the profile registration screen of the Tech-Air app. The title is "Profile" with "Tech-Air" below it. There are five input fields: "Name\*" with the value "Michael", "Surname\*" with the value "Smith", "Country\*" with a dropdown menu showing "United States", "Email\*" with the value "michaelsmith@alpinestars.com", and "Phone number\*" with the value "0039 04235286". A yellow "Save" button is located at the bottom of the form.

Service  
Centers  
registration

## IMPORTANT NOTE:

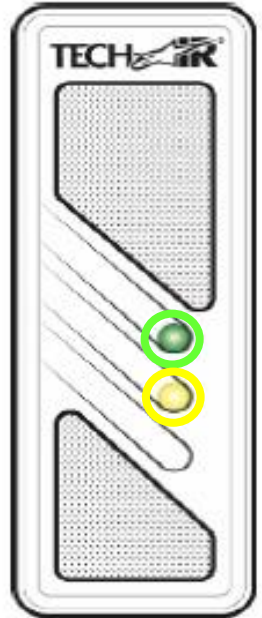
Tech-Air APP is NOT NEEDED for the regular operation of the airbag system. Rider is protected even if he didn't install the APP or if he doesn't own/carry a mobile phone.



Close the flap to switch the system ON

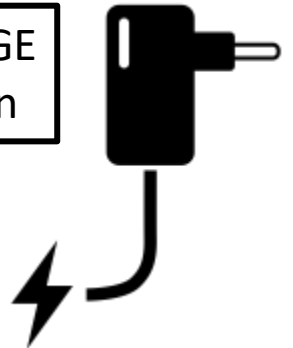


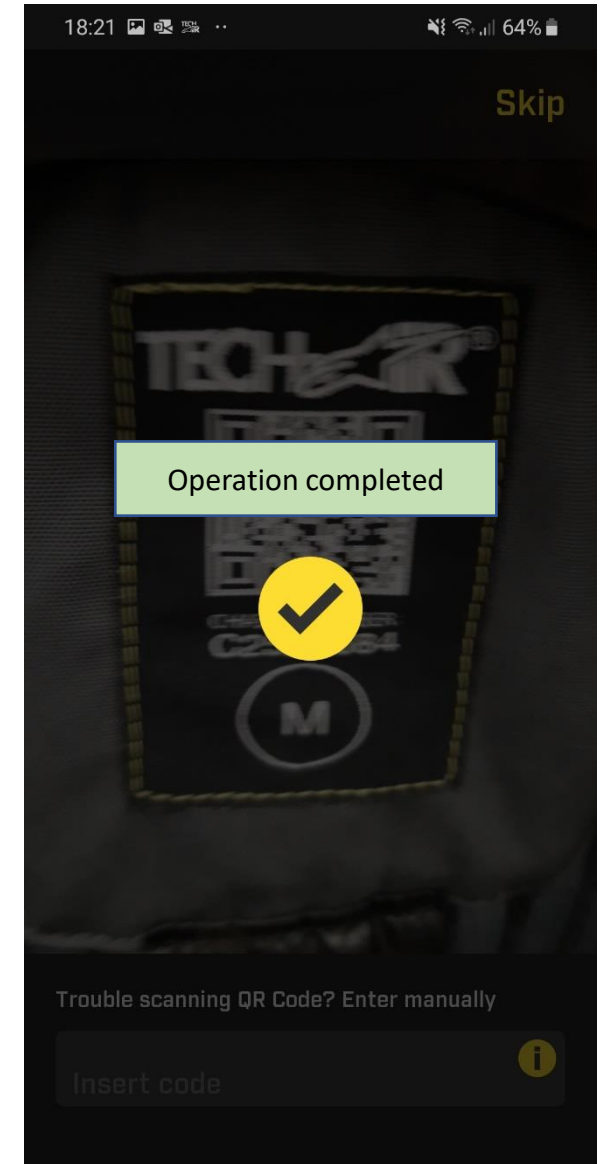
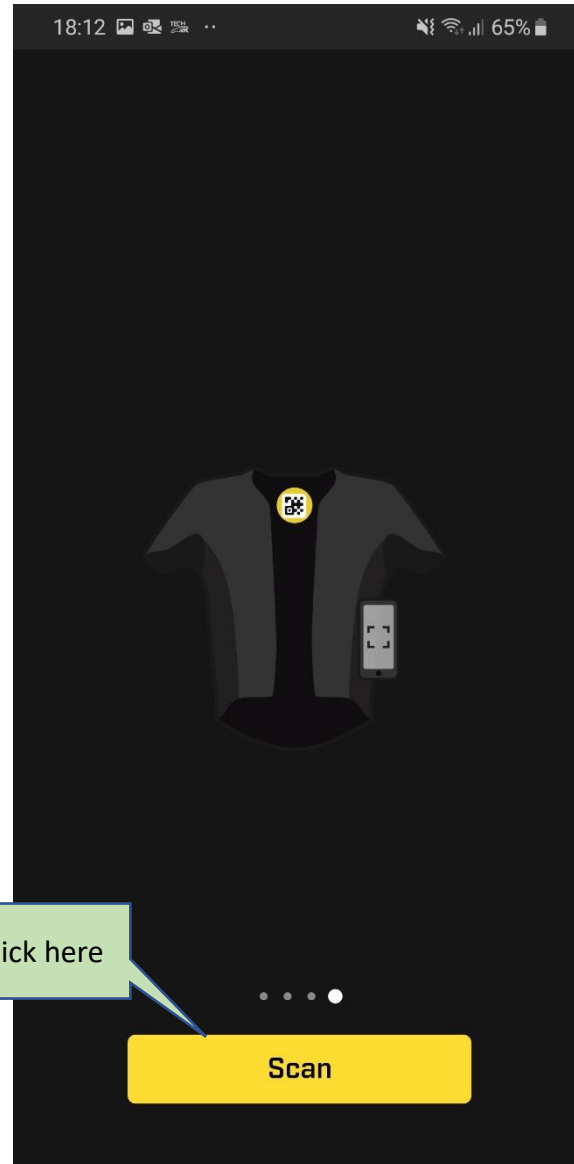
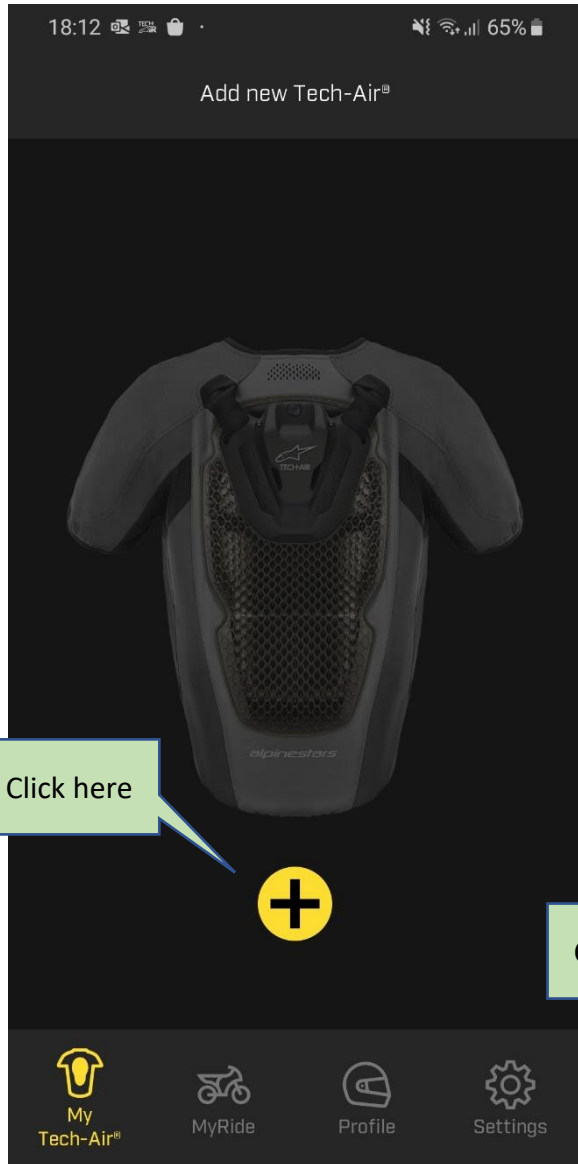
System must stay in  
STAND BY mode  
(Green + Orange LED on)



Before adding a new System, make sure your Tech-Air 5 System is turned on. To avoid automatic shutdown, put the System on charge.

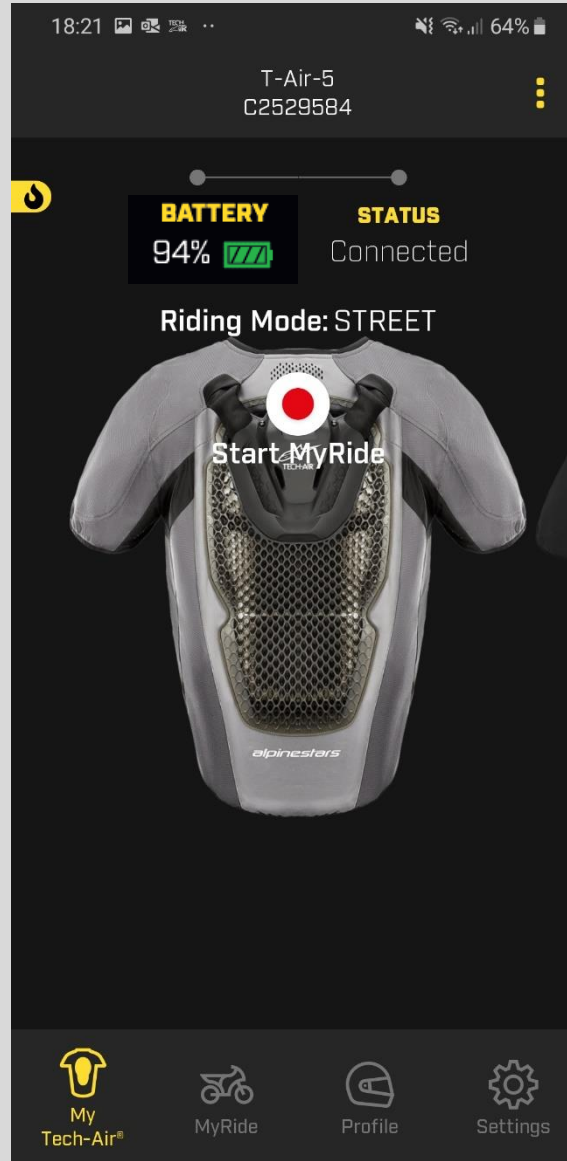
PUT the SYSTEM in RECHARGE  
to avoid automatic shutdown





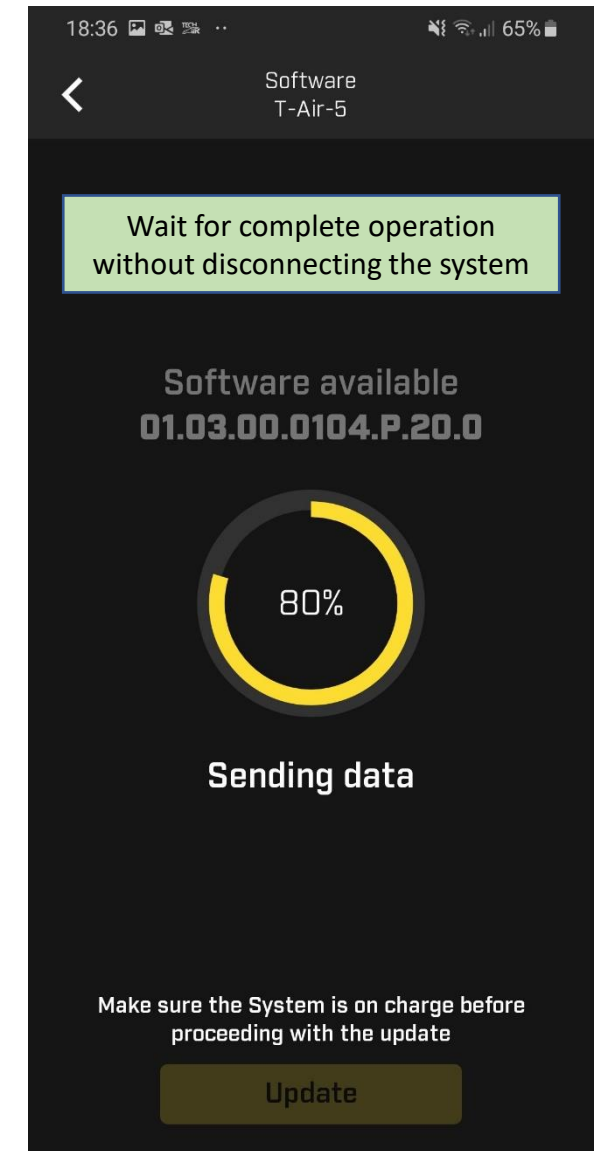
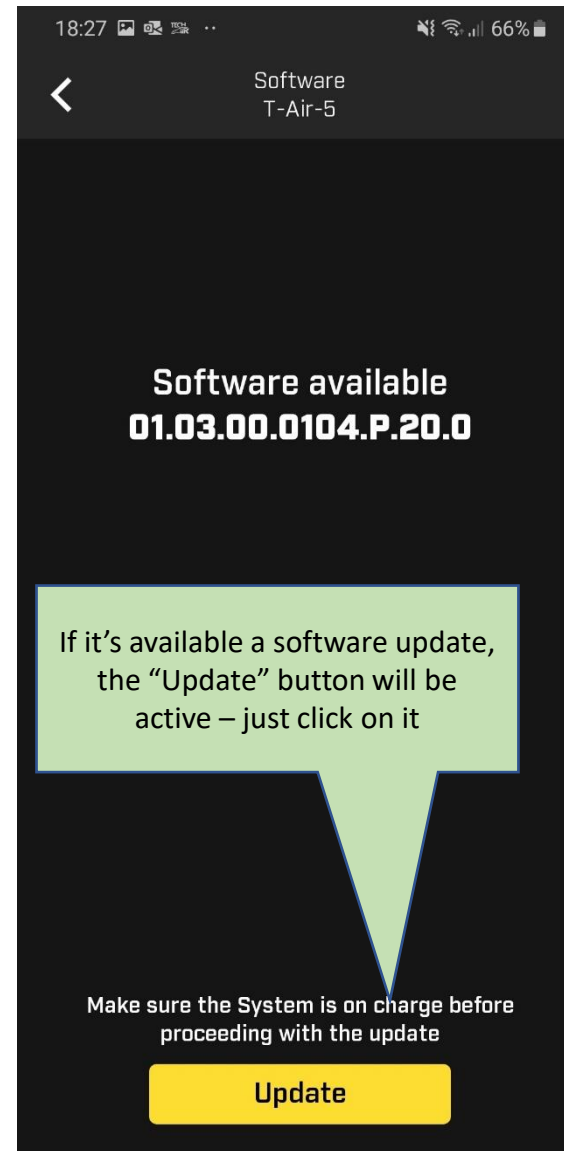
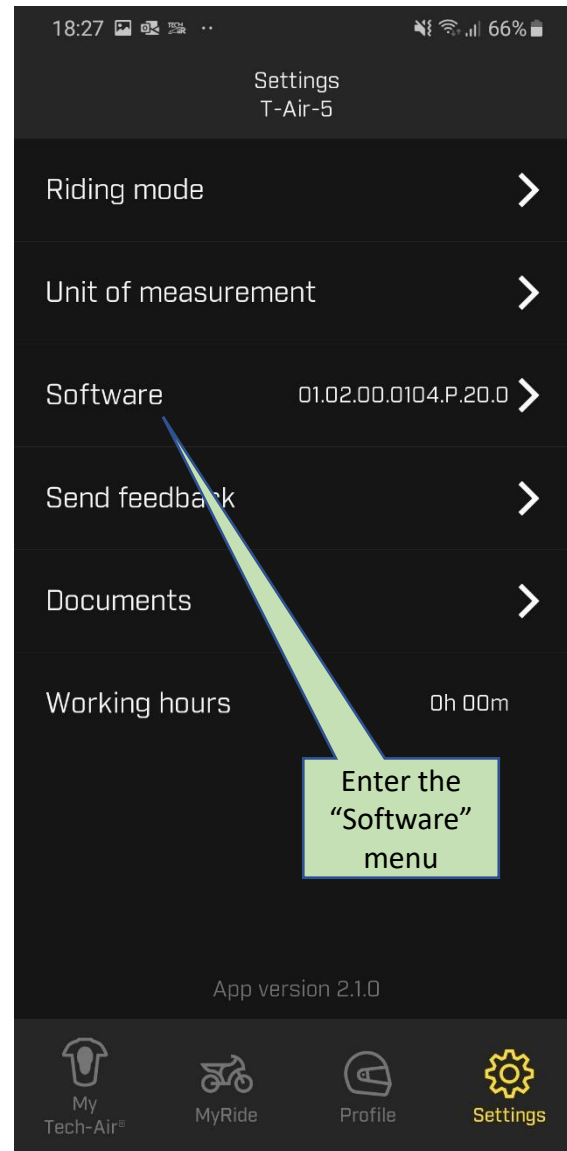
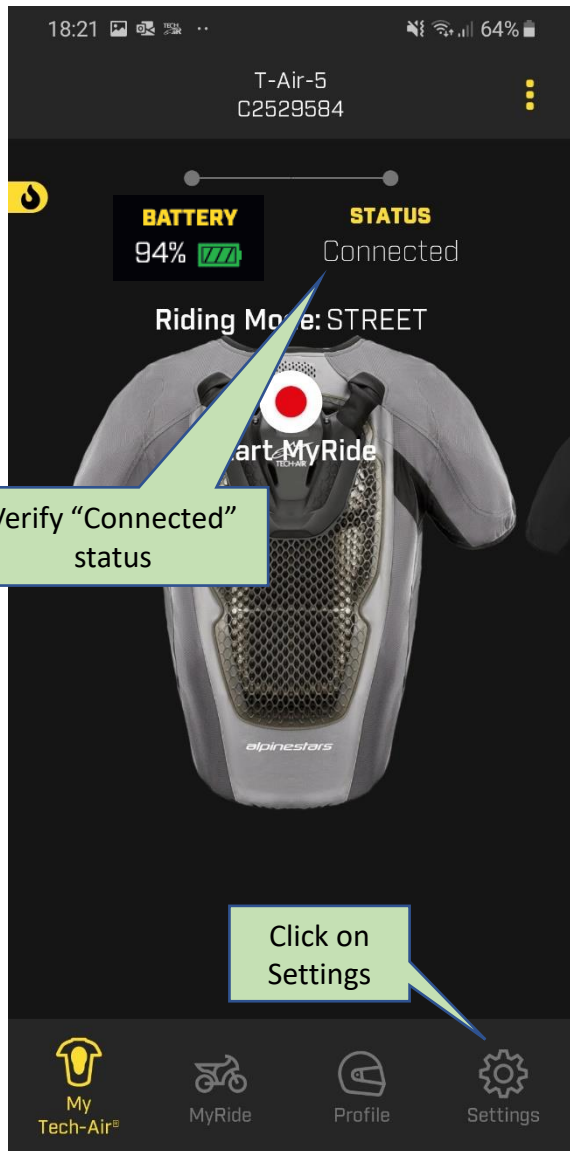


Initial screen;  
System connected



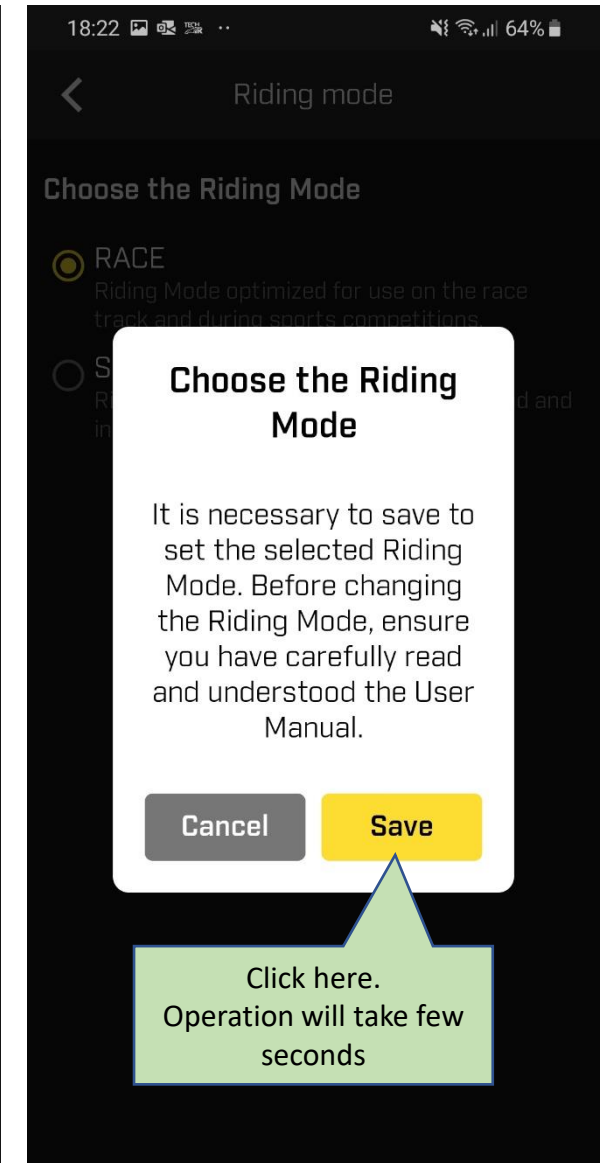
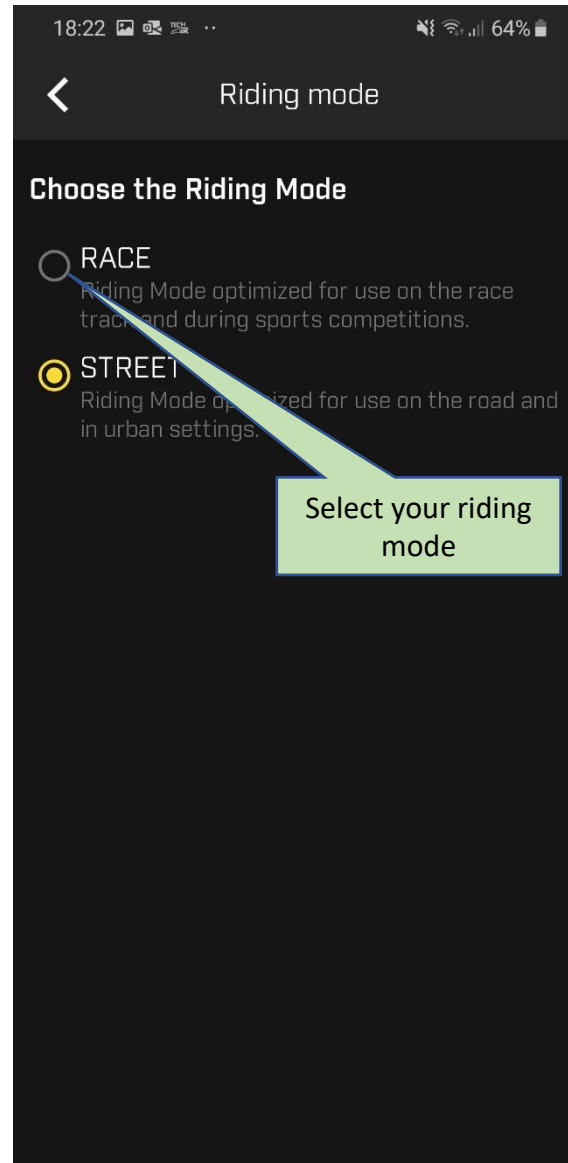
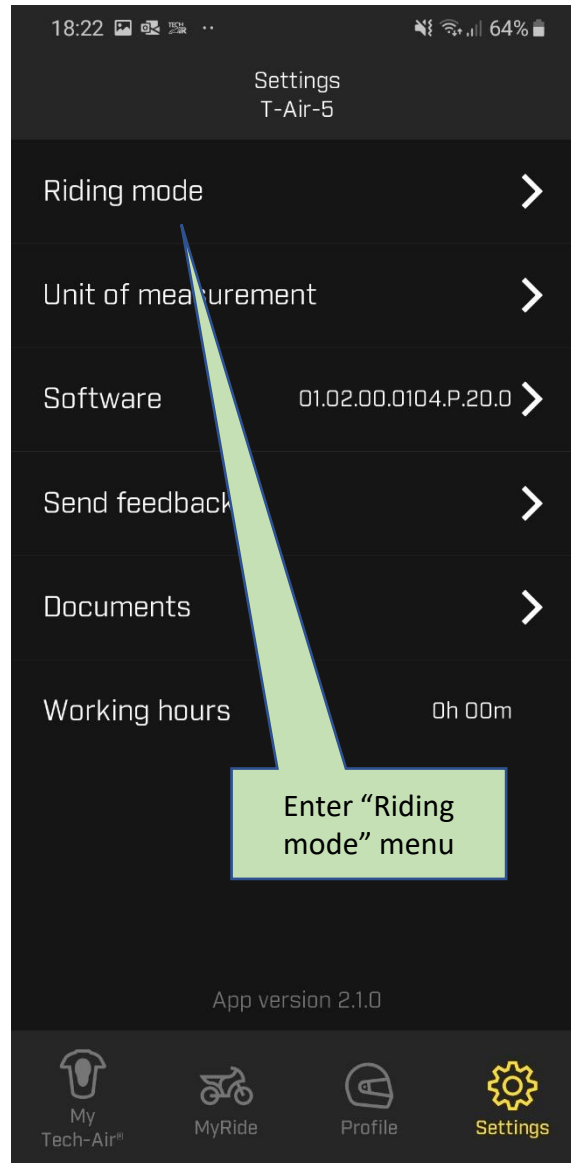
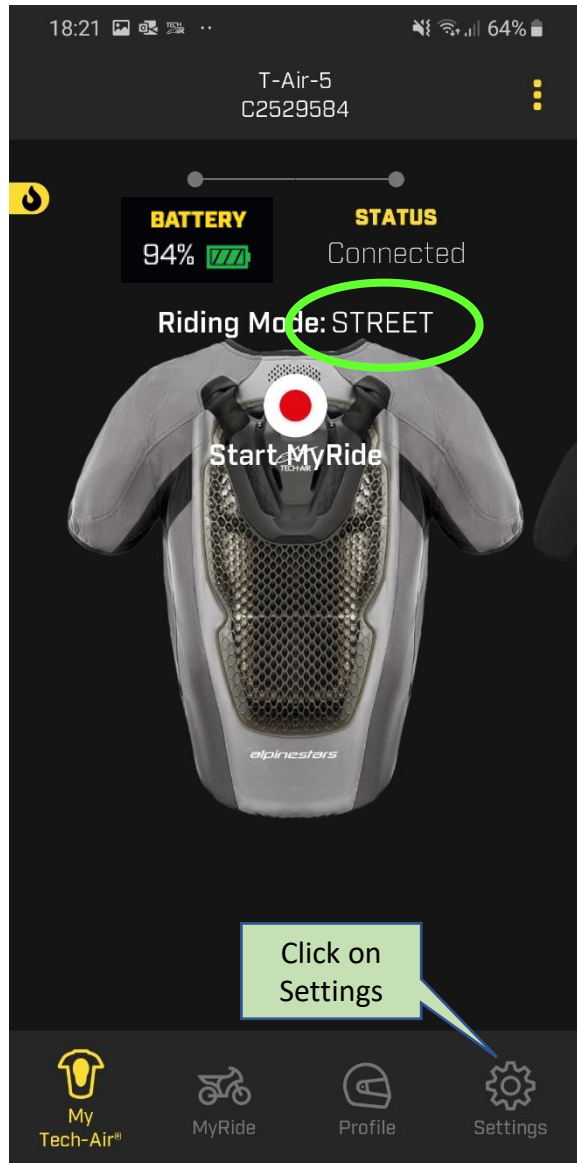
**TECH AIR 5**

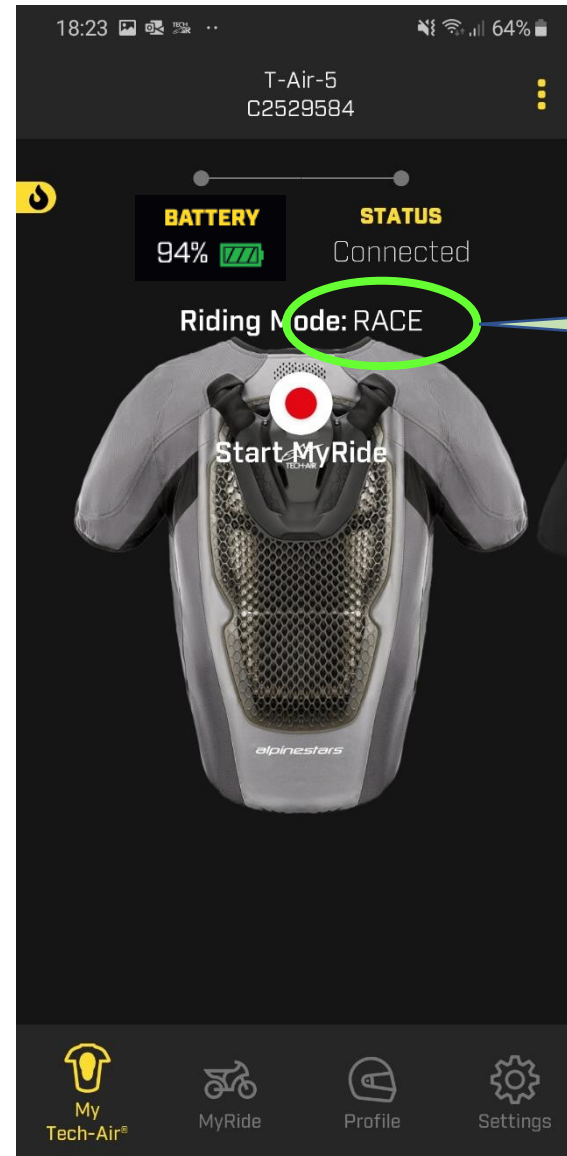
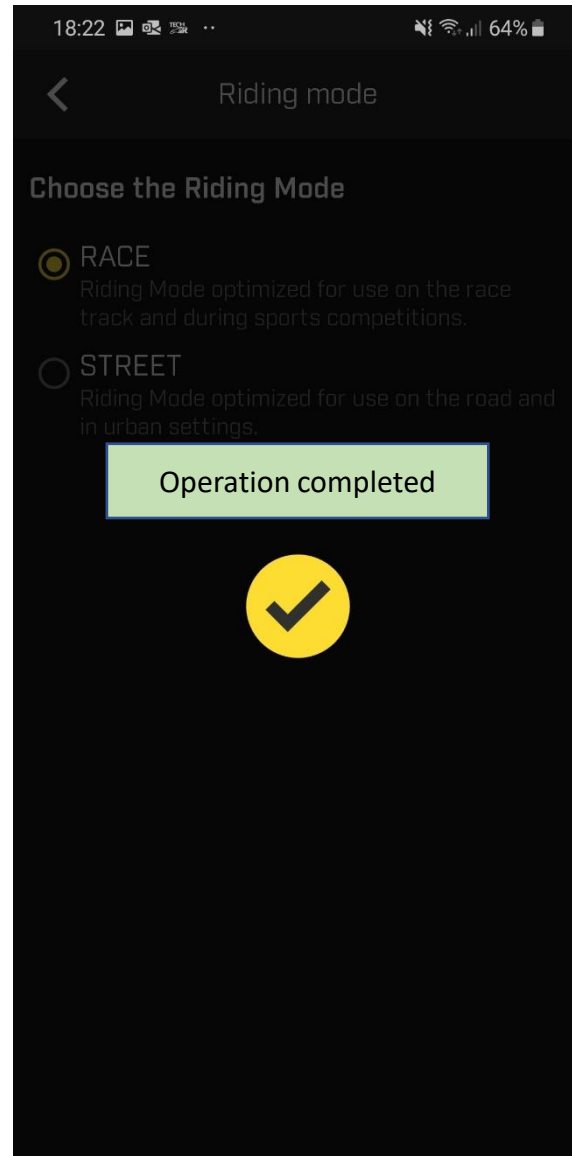
**SOFTWARE UPDATE**



**RIDING MODE SWITCH**







Verify the new mode in the initial screen





TECH--AIR<sup>®</sup> 5