

zoox

Law Enforcement Interaction Plan

This document is intended for law enforcement and emergency responders.

HAVE AN EMERGENCY?

**CALL (833) 322-2277 OR SEE
EMERGENCY RESCUE SHEET ON PAGE 44**





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(833) 322-2277

Zoox

Law Enforcement

Interaction Plan

CONTACT US

During driverless operations, Emergency Responders should assume that any passengers in the robotaxi are "riders" and are not the appropriate Zoox point of contact for engaging with emergency responders or other third parties. To reach appropriate Zoox personnel, please call (833) 322-2277 or use the exterior two-way audio system on the robotaxi doors (see page 29 for more information) to speak with a Zoox remote operator.

In certain circumstances, the Zoox Support Team may already be on the scene with a Zoox robotaxi prior to the arrival of Emergency Responders. The Zoox Support Team may also arrive on the scene after Emergency Responders are already present. In these situations, the Zoox Support Team will be able to support Emergency Responders in addition to the above mentioned remote operators. The Zoox Support Team will have their Zoox badges with them on-scene.

For any non-emergencies or general questions that do not require an immediate response, please email safety@zoox.com.



(833) 322-2277

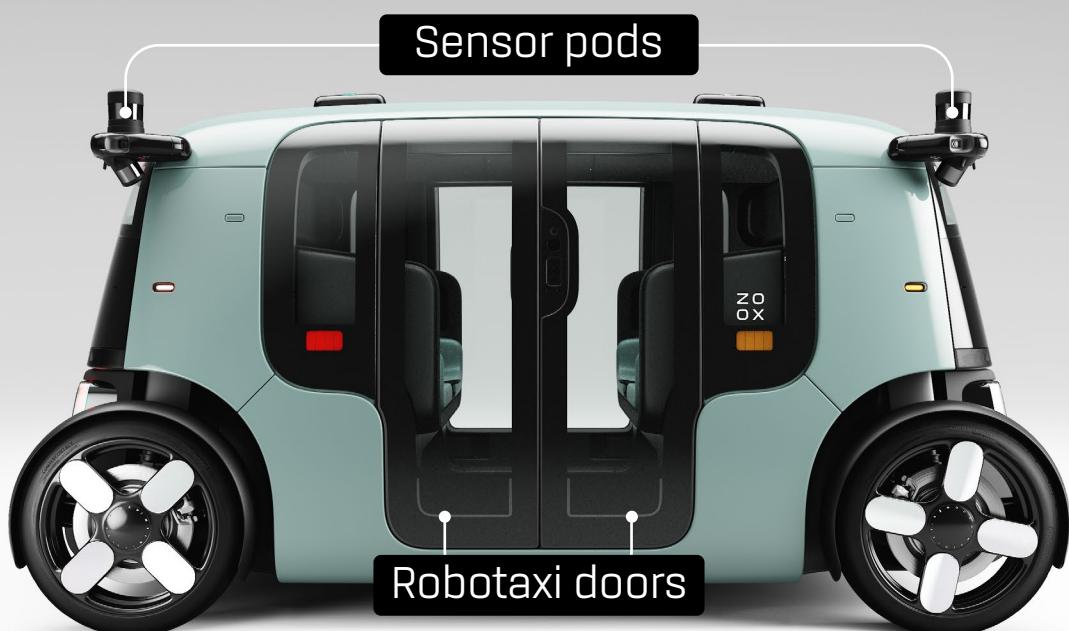
How to identify a Zoox robotaxi

Zoox robotaxis are road-ready and have been tested to meet all applicable state and federal laws. Here is how to identify an electric and autonomous Zoox robotaxi:

Zoox robotaxis are symmetrical. Unlike conventional human-driven vehicles, the front and rear look identical.

FEATURES

- Capability to reverse path of travel without turning around
- Sensor pods on each quarter of the body
- No steering wheel
- Robotaxi doors on each side of the body
- Two carriage-style rider seats with capacity for up to four riders
- Fully electric motor and propulsion
- Unique Zoox sounds when a rider interacts with the robotaxi



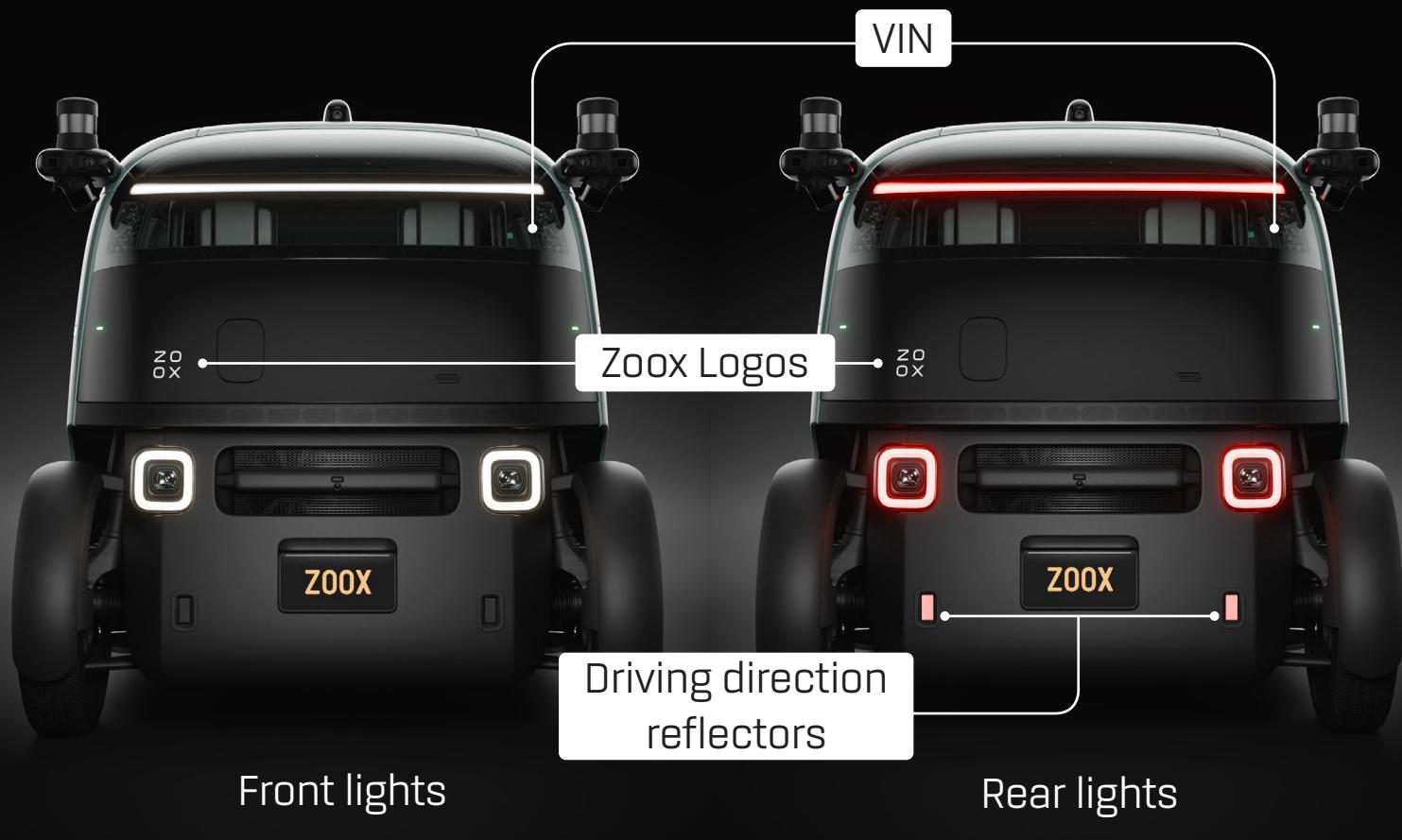


(833) 322-2277

How to identify a Zoox robotaxi

FRONT/REAR

- Zoox logo on the left side of the service bay panel
- The license plate is affixed to the front and/or rear of the robotaxi



VEHICLE IDENTIFICATION NUMBER (VIN)

- The VIN is visible through the window near the right-side sensor pod, facing the robotaxi (see image above)

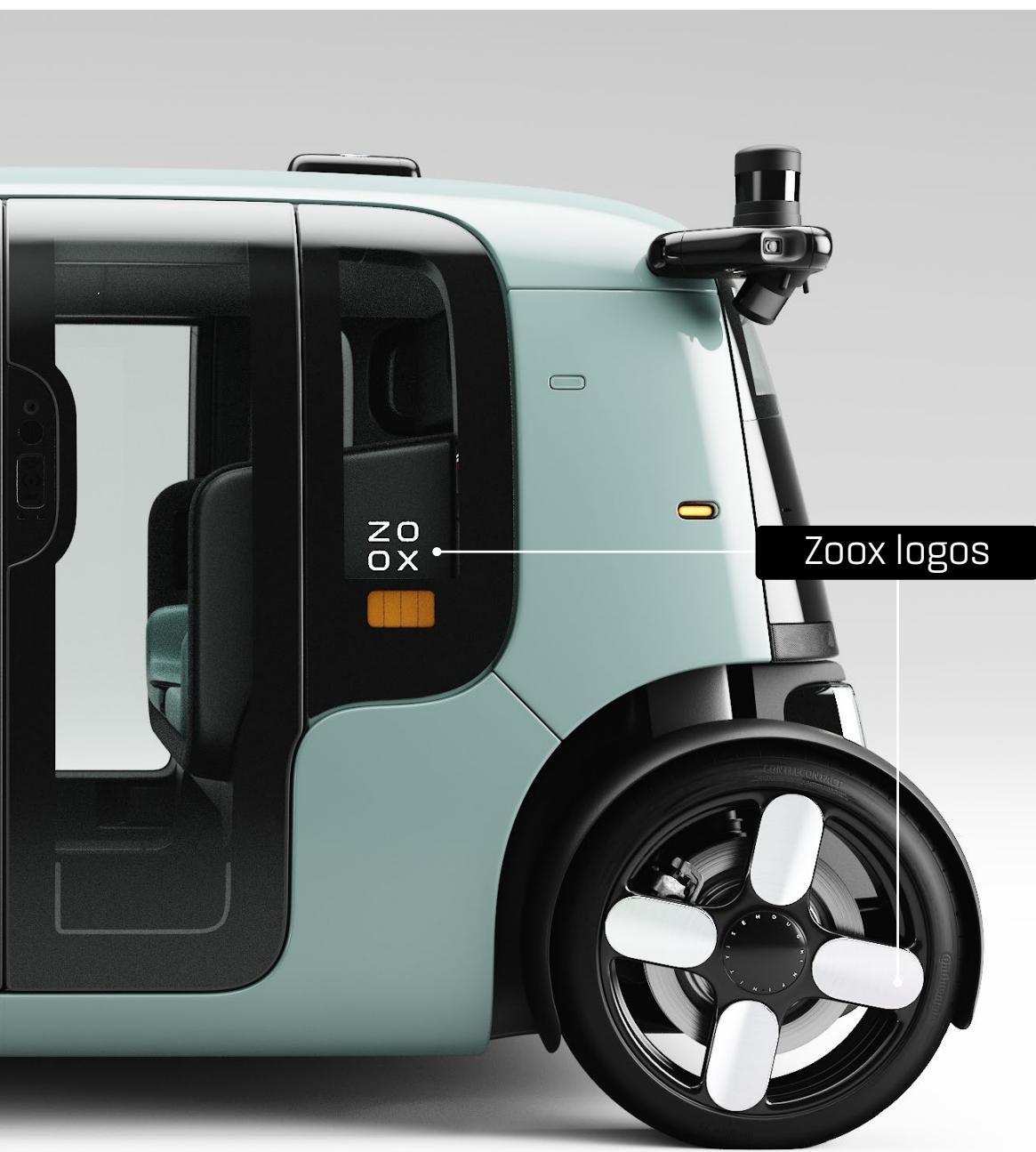


(833) 322-2277

How to identify a Zoox robotaxi

SIDE

- Zoox logo to the right of the door, visible through the quarter glass
- Zoox logo on the reflective surface of the wheel





(833) 322-2277

Where to find insurance, registration, and documentation

The documents listed below can be found in a document clip that is attached to the inside of the Chargeport door. The Chargeport door can be unlocked remotely by a Zoox remote operator. If they are unable to assist, the on-site Zoox Support Team will be able to unlock the Chargeport door.

- Vehicle registration
- Proof of insurance
- A copy of the Zoox State Permit(s)
- Business cards with Zoox contact information





(833) 322-2277

Safely interacting with the Zoox robotaxi

EMERGENCY RESCUE SHEET

ZOOX	Zoox From 2024-								
	Airbag		Stored gas inflator		Seat belt pretensioner		Carbon structure		High strength zone
	High Voltage battery pack		High Voltage power cable		High Voltage component		High Voltage ultra-capacitor		
	Low voltage battery		Low voltage ultra-capacitor		Lifting point		Air conditioning component		
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[Emergency Rescue Sheet](#)

Tap link above to jump to the full size attachment



(833) 322-2277

EMERGENCY RESCUE SHEET

ZOOX	Emergency Rescue Sheet
-------------	-------------------------------

1. IDENTIFICATION / RECOGNITION

FEATURES

- Symmetrical
- Sensor pods on each quarter of the body
- Robotaxi doors on each side of the body
- No steering wheel
- 2 carriage-style seats with room for 4 riders
- Unique Zoox sounds, including pre-recorded informational messages

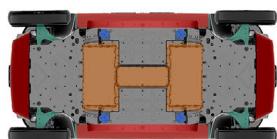
NORTH AND SOUTH

- Vehicle Identification Number (VIN): Bottom-right of the Service Bay window
- Zoox logo: Left side of the Service Bay panel, when facing the robotaxi
- License plate: Affixed to the front and/or rear of the robotaxi
- Driving direction reflectors: Below the tail lamps

SIDE

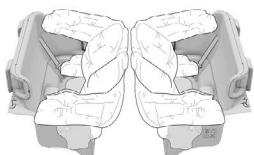
- Zoox logo: To the right of the door, visible through the quarter glass
- Zoox logo: On the reflective surface of the wheel
- Driving direction reflectors: At the bottom of the quarter glass window

2. IMMOBILIZATION / STABILIZATION / LIFTING



- Not suitable for stabilization/recovery
- Stabilization/Lifting points
- Recovery/Towing points
- HV components

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS



IF ANY AIRBAGS ARE DEPLOYED, HV WILL BE DISCONNECTED IN ≤ 5 SECONDS.

THERE IS NO METHOD FOR FIRST RESPONDERS TO DISABLE HV.

THERE IS NO METHOD FOR FIRST RESPONDERS TO CUT 12V POWER.

UNDEPLOYED AIRBAGS MAY BE PRESENT, THERE IS NO METHOD FOR FIRST RESPONDERS TO DISABLE THE 12V AIRBAG SYSTEM.

Autonomous Status Indications



Green status lights shown

ONLINE  - Green	Robotaxi is in autonomous mode.	HV enabled
OFFLINE [OFF]  - [Unlit]	Robotaxi is NOT in autonomous mode.	HV off, LV on
OFFLINE  - Orange	Robotaxi is NOT in autonomous mode.	Charging
OFFLINE  - Purple	Robotaxi is NOT in autonomous mode.	HV on

If additional verification about the status of High Voltage or Autonomy mode is required beyond the visual signals described, contact Zoox Support at (833) 322-2277.

4. ACCESS TO THE OCCUPANTS

Door Status Indications



Functional - Green

To open the doors, press the door button once.

Not functional/Temporarily not functional - Unlit, Red, or Amber

The doors on the opposite side of the robotaxi may be accessible.

To reset the fault, press the door button once. If the fault can be reset, the light will change to green. If the fault cannot be reset, the light will remain unlit, red, or amber. Refer to Emergency Release Handle instructions.

Help - White

Press the door button to contact Zoox Support. This can also indicate there is a call active with Zoox Support via the door audio system.

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Emergency Rescue Sheet

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EMERGENCY RESCUE SHEET

ZOOX	Emergency Rescue Sheet
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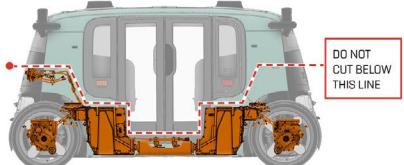
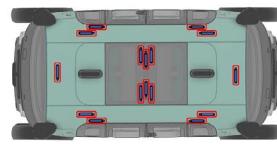
Emergency Release Handle



Two release handles are present, one for each door. When facing the door from the robotaxi exterior, the handle is on the right side.

To access, break glass, pull handle and step back. If the doors do not open automatically, pull and hold the handle at a 90 degree angle and manually open the right-side door.

No Cut Zones



5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT	DANGER
<ul style="list-style-type: none">• HV battery cells are sealed and do not have enough electrolyte to form a pool of liquid• The batteries are cooled with pink coolant• A clear fluid is most likely water• Use a Thermal Imaging Camera or Infrared to monitor the battery temperature		

6. IN CASE OF FIRE



Apply constant and copious amounts of water (as high as 40,000 gallons) onto the HV batteries until risk to the surrounding environment is contained.

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EMERGENCY RESCUE SHEET

ZOOX	Emergency Rescue Sheet
------	------------------------

	DANGER 400 VOLTS DC <small>HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT</small>	DANGER <ul style="list-style-type: none"> HV battery cells are sealed and do not have enough electrolyte to form a pool of liquid The batteries are cooled with pink coolant A clear fluid is most likely water Use a Thermal Imaging Camera or Infrared to monitor the battery temperature
--	---	---

7. IN CASE OF SUBMERSION

	DANGER 400 VOLTS DC <small>HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT</small>	DANGER <ul style="list-style-type: none"> Potential risk of an HV battery fire Damaged HV batteries may discharge harmful fumes and gases
--	---	---

8. TOWING / TRANSPORTATION / STORAGE



Height	6 ft 5 in (1949mm)
Length	11 ft 11 in (3630 mm)
Width	5 ft 10 in (1774.2 mm)
Weight	5842 lbs (2650 kg)

9. IMPORTANT ADDITIONAL INFORMATION

Zoox robotaxis are capable of detecting that they have been involved in a collision. The robotaxi will immediately notify Zoox Support and perform the following procedures:

- Safely stop
- Disconnect the HV if certain crash conditions are met
- Enable the EPB and service brakes
- Set Active Suspension to Passive
- Maintain exterior lights
- Turn on the hazard lights
- Unlock the doors to allow door access
- Present the "Door Open" screen on the touchscreen
- Turn off HVAC

Zoox Support remotely monitors the vehicle in real time for any indications of safety risks or events.

10. EXPLANATION OF PICTOGRAMS USED

	Electric Vehicle Propulsion		Use thermal Infrared camera		Flammable
	Battery pack, high-voltage		Break to obtain access		Explosive
	Battery, low-voltage		Use water to extinguish the fire		Corrosives
	Warning, Electricity		Gases under pressure		Hazardous to the human health
	General warning sign		Acute toxicity		

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[Emergency Rescue Sheet](#)

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Pre-recorded messages

Zoox has developed a set of informational and instructional pre-recorded messages that can be played through the robotaxi's external audio system. These messages can provide important or helpful information about, for example, how to interact with the robotaxi, what the robotaxi intends to do, and how to contact Zoox remote operators. The text of these messages can be seen below.

Anytime these one-way messages are played, it is one of our remote operators with situational awareness who is prompting them.

Approach Door

"Zoox Support is monitoring the situation. If you need to speak to us, please come closer to the doors."

Locate Phone Number

"To contact Zoox Support, call the number on either end of the vehicle."

Zoox Support on the Way

"Zoox ground support is on the way."

Access Emergency Door Release

"The emergency door release handle is located to the right of the doors. Break the glass, then pull the handle and door at the same time."

Vehicle Won't Move

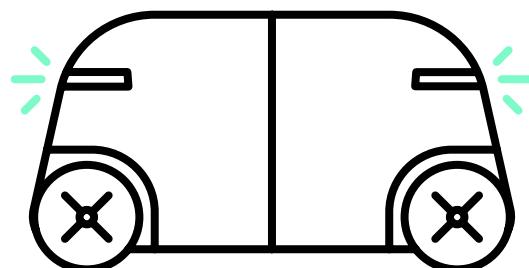
"The Vehicle won't move, you can approach."

Vehicle is About to Move

"The vehicle is about to move. Please stay back."

(Bad Actor) Keep Away

"Keep away from the vehicle. You're being recorded."



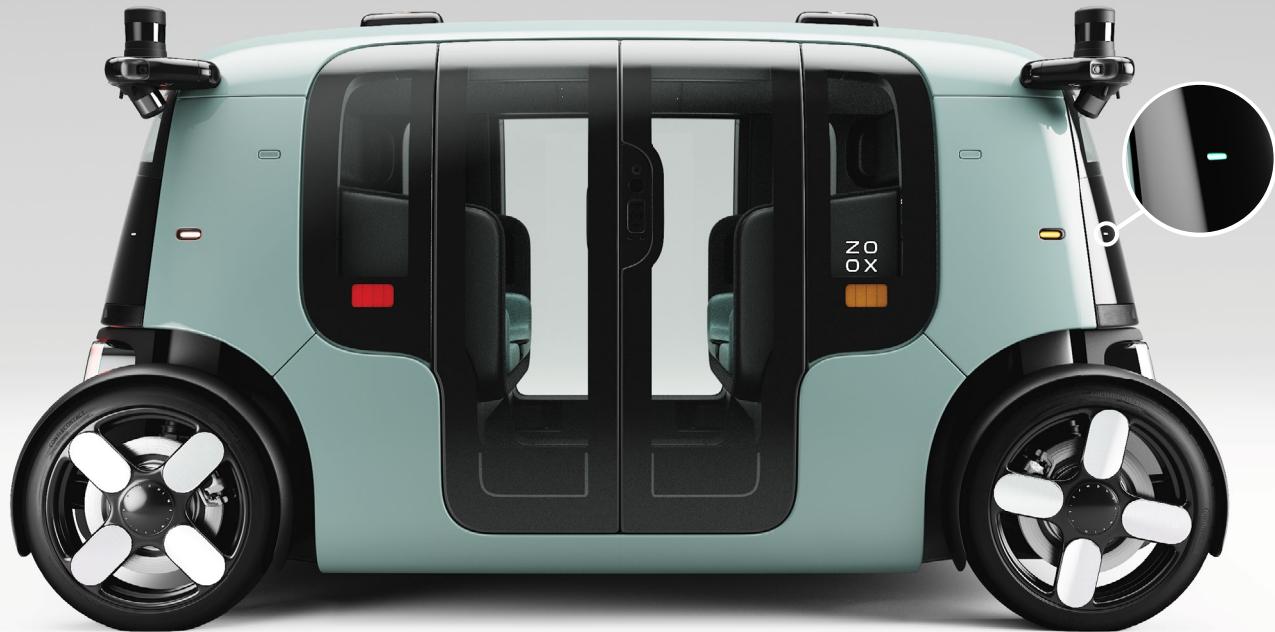


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How to recognize and deactivate autonomous mode

Autonomous mode can only be disengaged either by a Zoox remote operator or on-scene by the Zoox Support Team. If autonomy is active and needs to be disengaged, or if additional verification about the status of autonomy mode is required beyond the visual signals described below, please contact Zoox at (833) 322-2277.

The robotaxi is in autonomous mode if the service bay indicators are green, as indicated by the picture below.

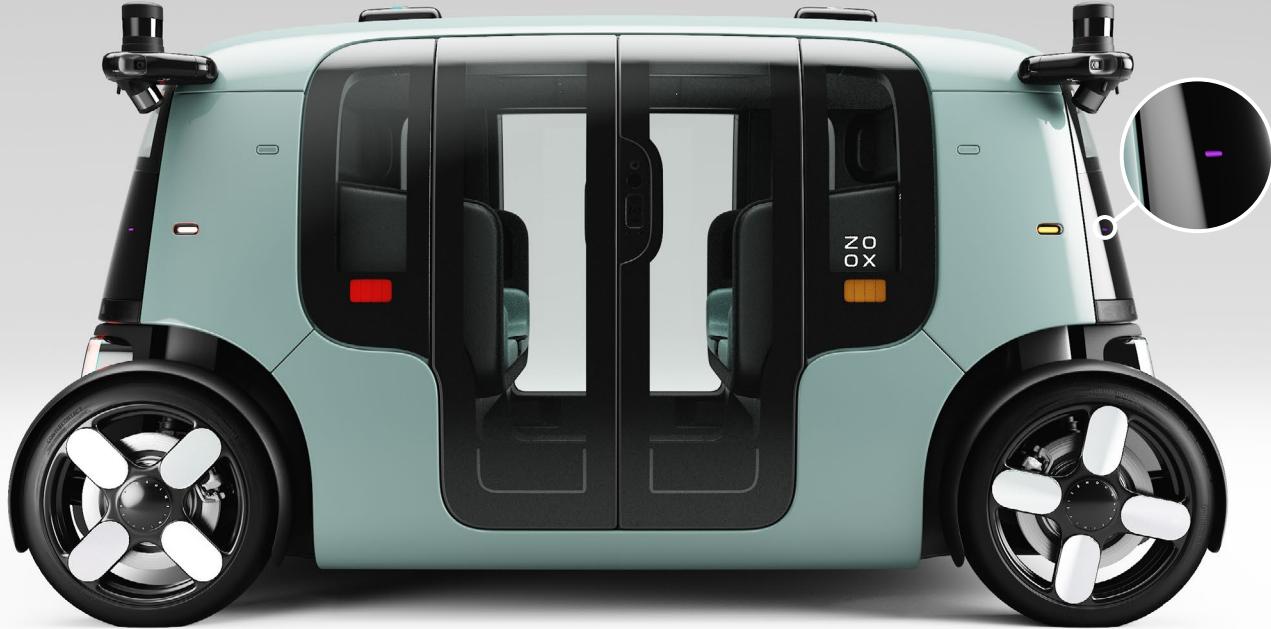




(833) 322-2277

HOW TO RECOGNIZE AND DEACTIVATE AUTONOMOUS MODE

The robotaxi is not in autonomous mode if service bay indicators are off (unlit), orange, or purple. An example of purple service bay indicators is depicted below.



NOTE

Hazard lights, or the outer half of each headlight (C-shaped) on both sides, may flash amber as a visual indicator of caution to other road users.



How to safely remove the robotaxi from the roadway

If the robotaxi cannot be moved using its own power, the robotaxi must be towed. Please see instructions and important safety information below.

- The Zoox robotaxi weighs 5842 lbs (2650 kg)

DANGER

- Connecting the tow straps to areas other than those specified may cause damage, serious injury, or death
- Overheating the high voltage system is a fire hazard
- Towing the robotaxi with the wheels on the ground will cause significant damage and may overheat the high voltage system

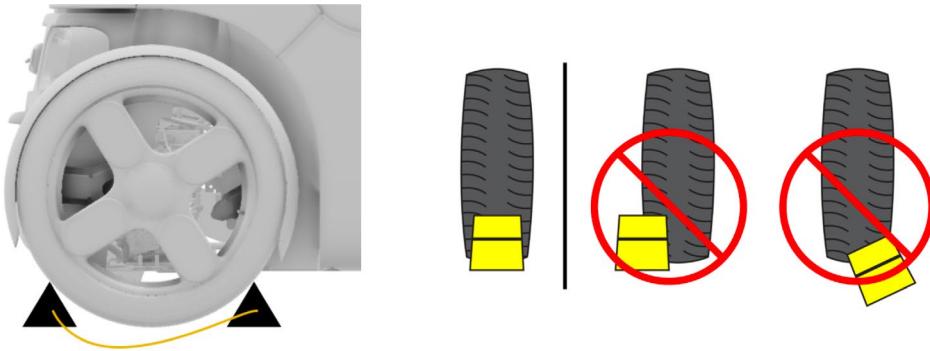
Steps to tow the Zoox robotaxi:

1. Before interacting with a Zoox robotaxi, please observe the service bay indicators described above AND call Zoox at (833) 322-2277 to confirm that the vehicle has safely stopped and autonomous mode has been disengaged.



HOW TO SAFELY REMOVE THE ROBOTAXI FROM THE ROADWAY

2. Install wheel chocks under two of the wheels to prevent the robotaxi from rolling away.



3. Install tow straps to the control arms at each wheel on one end of the robotaxi, as highlighted in green on the diagram in step 9.

- Towing the robotaxi from any areas other than those specified above may result in serious injury or damage to the robotaxi.

4. Align the bed of the truck with the Zoox robotaxi so the robotaxi can be pulled straight onto the truck bed.

- Towing the robotaxi on a flatbed truck or trailer is preferred.

5. Attach winch cables. Activate the winch to remove slack in the tow straps.

- Do not fully tighten.



HOW TO SAFELY REMOVE THE ROBOTAXI FROM THE ROADWAY

6. Install wheel skates under all 4 tires and remove wheel chocks.

- There is no way for the on-site Zoox Support Team to disengage the Electronic Parking Break (EPB).

7. Use winch cables to pull the robotaxi onto the flatbed of the tow truck.



8. Safely secure the robotaxi to the bed of the truck using the strap tie down method around the wheels. Once secure, release the tension from the winch cable and remove the wheel skates.

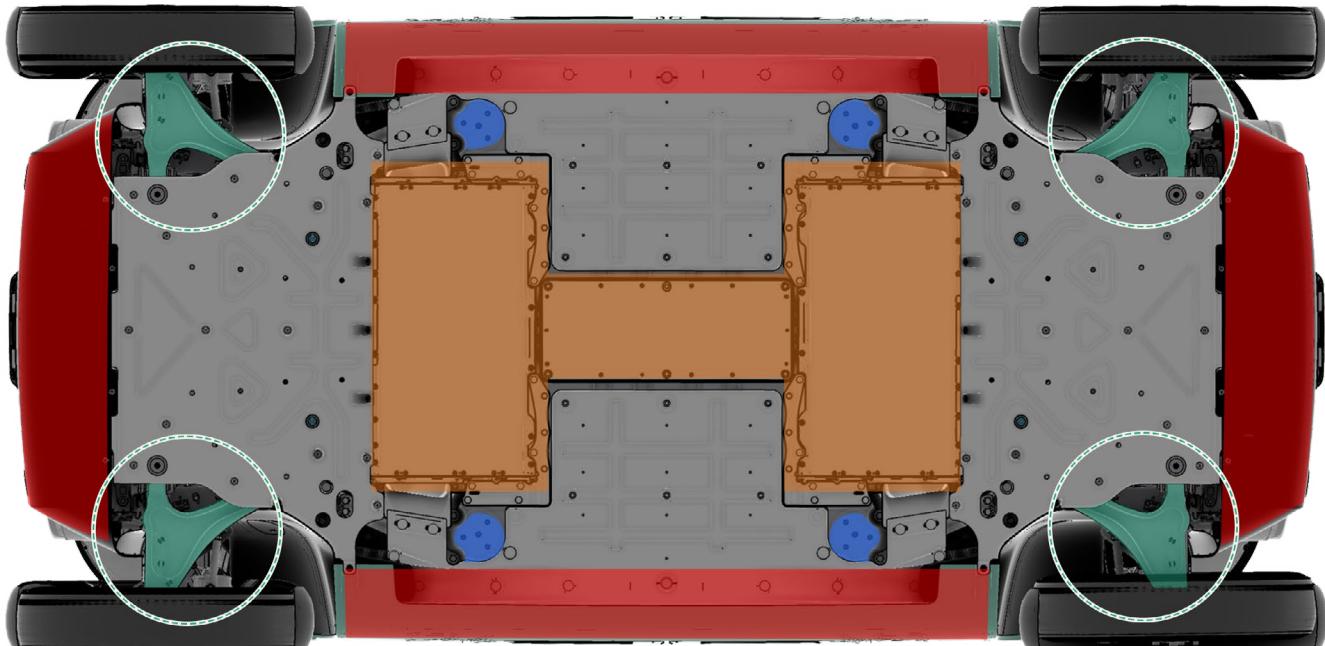
- For enclosed trailers, the robotaxi can be further secured using wheel chocks if necessary.



(833) 322-2277

HOW TO SAFELY REMOVE THE ROBOTAXI FROM THE ROADWAY

9. After offloading the robotaxi from the tow truck, chock the wheels.



Recovery/Tow Points highlighted in green.



★ **IMPORTANT**

- Before attempting to tow the robotaxi, ensure autonomous mode is deactivated (page 13). If necessary, reach out to Zoox remote operators at **(833) 322-2277**
- Towing Zoox robotaxis on a flatbed truck or trailer is preferred
- Check overhead clearance limits. The Zoox robotaxi height is 6ft 5in
- Be careful not to scrape the battery pack (highlighted in orange on diagram on page 18) when loading or unloading the robotaxi. Excessive vertical forces on the bottom of the battery can cause internal damage, increasing the risk of a battery thermal event

NOTE

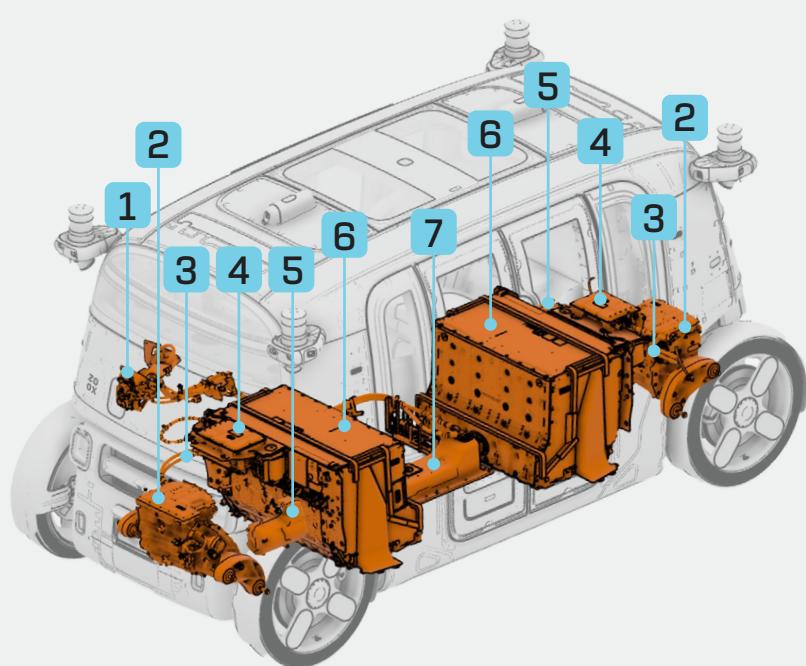
- If an on-site Zoox Support Team member is unavailable to assist, push bumpers may be used to move the robotaxi, although this presents a risk of sensor damage



Important information on the electric powertrain

The High Voltage (HV) system is sub-assembled to the robotaxi chassis and 12V DC systems to form two integrated drive modules on the robotaxi. The HV system consists of the following components:

1. HV Vehicle Charge Inlet
2. Electric Drive Unit (EDU)
3. HV cables/harnesses
4. DC-DC Converter
5. Air Conditioning (AC) Compressor
6. HV Battery
7. HV Battery Interconnect



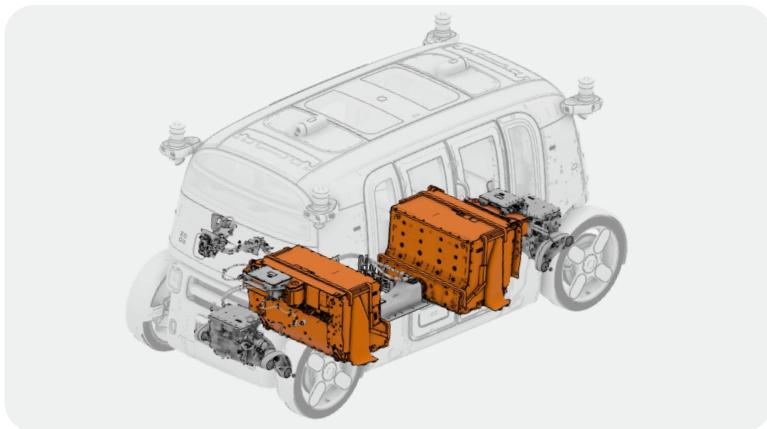


IMPORTANT INFORMATION ON THE ELECTRIC POWERTRAIN

HV Battery

Zoox robotaxis use two self-contained 400V DC lithium-ion batteries. There are two separate but connected HV batteries on the robotaxi (one per drive module) on each side beneath the rider seats. Each HV component, including the HV battery is connected to the drive module ground via Potential Equalization (PE) cables. If one HV battery experiences a non-safety-critical failure, the other HV battery continues to power all systems with no loss in robotaxi function. For safety-critical failures of either battery, the HV system is disabled. The robotaxi HV system consists of HV Battery, AC Compressor, DC-DC Converter, EDU, and HV Battery Interconnect, all connected through HV cables to form one parallel HV circuit. Each HV battery contains the following:

- 3456x Li-ion Battery Cells
- 6x Modules/Packs
- 1x HV Junction Box
- 1x Outer Enclosure
- 2x Potential Equalization (PE) cables

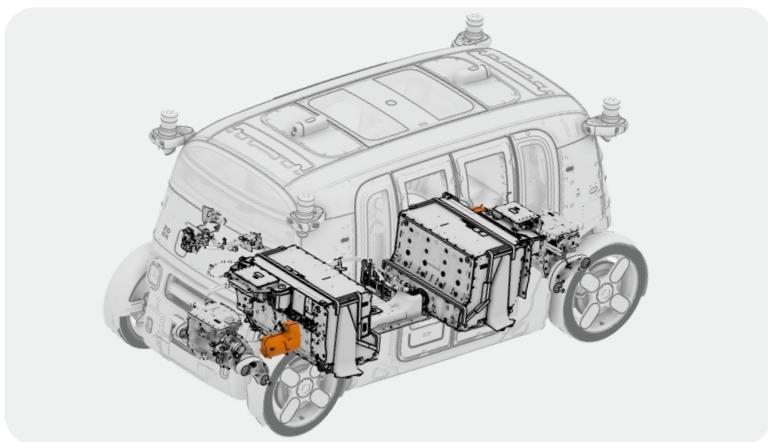




IMPORTANT INFORMATION ON THE ELECTRIC POWERTRAIN

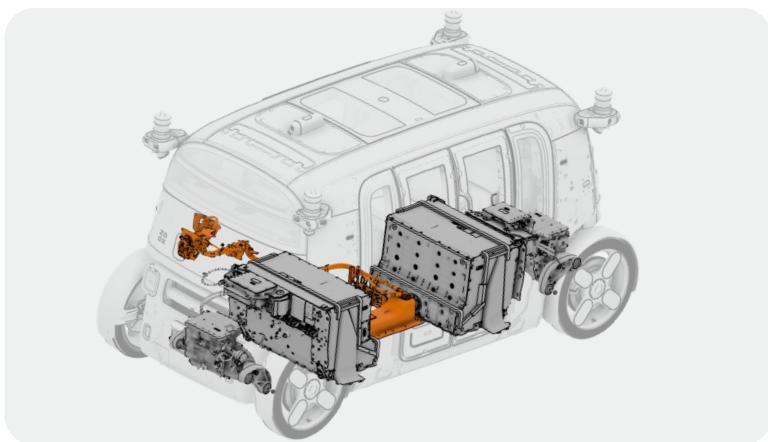
AC Compressor

The AC Compressor is powered by the HV system. Zoox robotaxis have two AC compressors on the robotaxi, one within each drive module. Within their respective drive module, they are connected to the HV battery through an HV cable.



HV Battery Interconnect and Charge Inlet

The HV Battery Interconnect is located on the underside of the Zoox robotaxi. It charges the robotaxi by connecting to both the HV batteries and pairing them with the HV Vehicle Charge Inlet to an external charger.



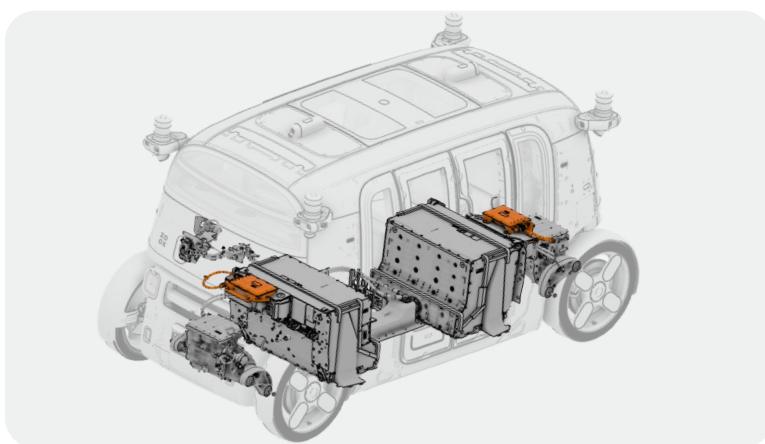


(833) 322-2277

IMPORTANT INFORMATION ON THE ELECTRIC POWERTRAIN

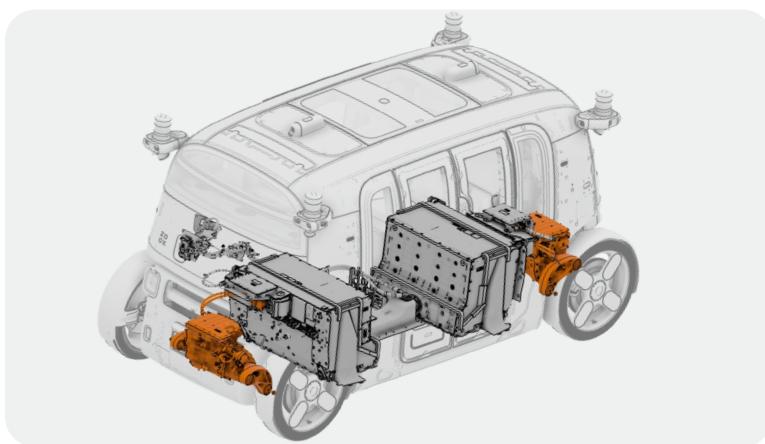
DC-DC Converter

There are two DC-DC converters that are located on top of each HV battery. They are liquid-cooled devices that convert 400V DC power to 12V DC Low Voltage (LV) power through an HV cable connected to the HV battery.



Electric Drive Unit (EDU)

Two EDUs, one per drive module, provide the torque to accelerate and decelerate the robotaxi. Each EDU is connected to the nearest HV battery through an HV cable.

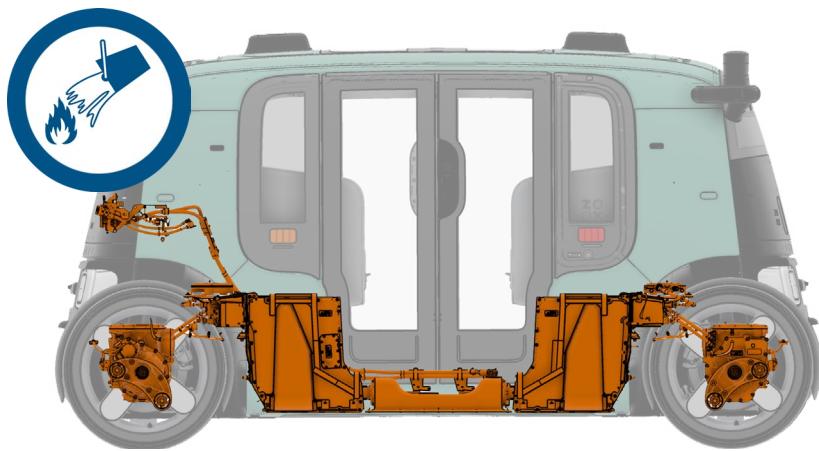




Extinguishing a robotaxi fire

DANGER

- Interacting with the HV system is extremely dangerous and can result in injury or death
- Inflammable, flammable, or toxic materials from the leaked battery may enter the rider cabin or ignite the robotaxi
- Battery re-ignition may occur
- Using water to extinguish a robotaxi fire may result in a chemical reaction that may burn the skin, if contact with robotaxi fluid is made
- Fire can compromise robotaxi components (airbags, inflation cylinders, gas struts, etc.) and can cause inflation cylinder explosions



For a legend explaining the symbols depicted above, please refer to Attachment: Emergency Response Guide (page 44).



EXTINGUISHING A ROBOTAXI FIRE

☆ **IMPORTANT**

Safety best practices for Zoox robotaxi fires involve defensive firefighting and environmental management to minimize risk. Fire extinguishing should only be conducted by firefighters or fire safety-trained persons.

When approaching the robotaxi fire:

- Wear Personal Protective Equipment (PPE)
- Wear Self-Contained Breathing Apparatus (SCBA)
- Use insulated tools for extinguishing fire
- Foam will not extinguish a battery fire

NOTE

- Always assume the HV battery is energized
- If any airbags are deployed, HV will be disconnected in ≤ 5 seconds
- Ensure the autonomous mode is deactivated by calling Zoox remote operators at (833) 322-2277. Please have the Zoox license plate number available.
- Remote operators have access to active battery diagnostics on the robotaxi



(833) 322-2277

EXTINGUISHING A ROBOTAXI FIRE

Steps to extinguish a robotaxi/battery fire:

1. Apply constant and copious amounts of water (as high as 40,000 gallons) onto the HV batteries until risk to the surrounding environment is contained.
 - Only water will keep the battery from entering thermal runaway.
 - If water is not readily available, use CO₂, dry chemicals, or other fire-extinguishing agents to suppress the fire until water is available.
2. Monitor the battery temperature using a Thermal Imaging Camera (TIC) or Infrared (IR) during the cooling process.
 - Cool down the battery if it is $\geq 302^{\circ}\text{F}$ (150°C).
 - Optimal ambient temperature of the battery is $\leq 131^{\circ}\text{F}$ (55°C).
3. Apply water directly to any exposed areas and continue to monitor the battery structure.
 - Ensure the loose battery cells or modules are submerged in water for at least 24 hours.
4. Advise second responders (vehicle transporters, etc.) of the risk of battery re-ignition.



Inhalation in fire situations

DANGER

Exposure to toxic gases and vapors which may be released due to a battery fire and exposure to high heat levels include:

- Cobalt
- Nickel
- Copper
- Oxides of carbon
- Lithium-ion
- Sulfuric acid

Full PPE and SCBA must be worn while in contact or close proximity of the robotaxi.

Keep a safe distance while extinguishing an active battery fire with water.

Stay upwind to avoid inhalation of fumes or smoke.

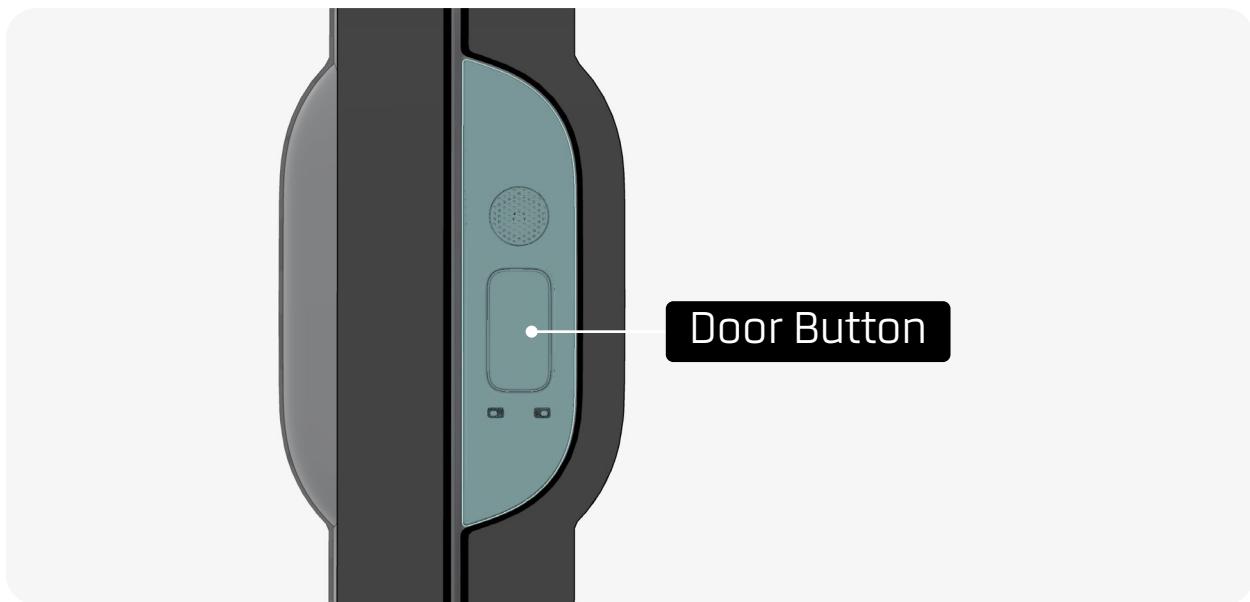


(833) 322-2277

Emergency access to occupants

If a robotaxi has *not* been in a collision, there are three options to open the doors:

1. Occupants open doors via the in-cabin touchscreen.
2. Emergency responders use the door button to open doors.
3. Occupants or emergency responders contact Zoox remote operators to open the doors.



If a robotaxi has been in a collision or is experiencing a system fault, the above options for door operation may not function as intended. Emergency responders can attempt to use the door button or can break glass to actuate the Emergency Release handle to gain access to the occupants. A prerecorded message may be playing through the external audio system.



EMERGENCY ACCESS TO OCCUPANTS

Door Button Status Indications



Green: Door Access is Functional

Press the button (shown in the image) once to open the doors.



White HELP: Door Control Unavailable

Press the button to contact a Zoox Remote Operator. This can also indicate there is a call active with a Zoox Remote operator via the door audio system.



Unlit: Door Control Unavailable

Door control is unavailable.



Amber: The Door Function is Temporarily Stopped

Press the button once. The button turns green, indicating it has reset. If the door button continues to show amber and the doors cannot be opened manually, refer to "Emergency Release handle" instructions.



Red: Door Access is Not Functional

The doors cannot be opened from this side of the robotaxi. Try the doors on the opposite side of the robotaxi, or refer to "Emergency Release handle" instructions.



Emergency access to robotaxi doors

DANGER

- Wear PPE
- Be careful when breaking glass as sharp shards of glass may pierce the skin

IMPORTANT

- In a collision, a flashing red light across from the Emergency Release handle will illuminate the location of the handle
- Powered door operation will be maintained until the 12V batteries drain, approximately 5 minutes after a crash
- When using the Emergency Release handle to access the cabin, the door should be pulled at the bottom for maximum efficiency

NOTE

- Ensure autonomous mode is deactivated by calling the Zoox remote operators **(833) 322-2277**
- Have the location and Zoox license plate number available



(833) 322-2277

EMERGENCY ACCESS TO ROBOTAXI DOORS

Steps to Open the Doors with the Door Button:

1. Locate the door button.
2. Touch the button once to open the doors.
 - If the door button is red or amber, press the button once to reset. The status changes to green. If it does not change and doors cannot be opened, follow the instructions for using the "Emergency Release handle"

Steps to Open the Doors with the Emergency Release handle

Occupants can actuate the Emergency Release handle to open the door. If the handle cannot be actuated by the cabin occupants, emergency responders can break glass from the exterior of the robotaxi to access the Emergency Release handle. The Emergency Release handle will be illuminated with a flashing red light if a crash has occurred.

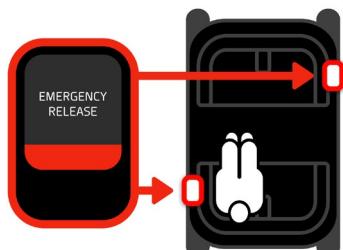




(833) 322-2277

EMERGENCY ACCESS TO ROBOTAXI DOORS

1. Locate the Emergency Release handles on opposite sides of the robotaxi interior
 - There are 2 Emergency Release handles
2. Pull the Emergency Release handle up to a 90-degree angle to release the door latch. The door latches will release, and if power remains, the system will attempt to open automatically. Step back from the robotaxi as the doors open. If no power remains, the lever will need to be held in the pulled-up position while the right-side door is opened manually.
 - In the event of a collision that resulted in horseshoe airbag deployment, graphics on the outward-facing side of the airbags will show the location and operation of the Emergency Release handle. The graphic is only visible through the quarter panel glass (i.e. the glass next to the Release handle—see image below)





(833) 322-2277

EMERGENCY ACCESS TO ROBOTAXI DOORS

★ IMPORTANT

- The doors require force to open manually
If possible, pull the doors at the bottom for maximum efficiency
- If airbags are deployed due to a collision, graphics on the airbags will show the location and operation of the Emergency Release handle
- The Emergency Release handle will be illuminated with a flashing red light if a crash has occurred

NOTE

- Ensure autonomous mode is deactivated by calling the Zoox remote operators **(833) 322-2277**
- Have the location and Zoox license plate number available



(833) 322-2277

Appendices and Attachments

- [Appendix I: Foster City, CA](#)
- [Appendix II: San Francisco, CA](#)
- [Appendix III: Las Vegas, NV](#)
- [Emergency Rescue Sheet](#)
- [Emergency Response Guide](#)

Tap a link above to jump to the appendix or attachment



(833) 322-2277

Appendix I: Foster City, CA

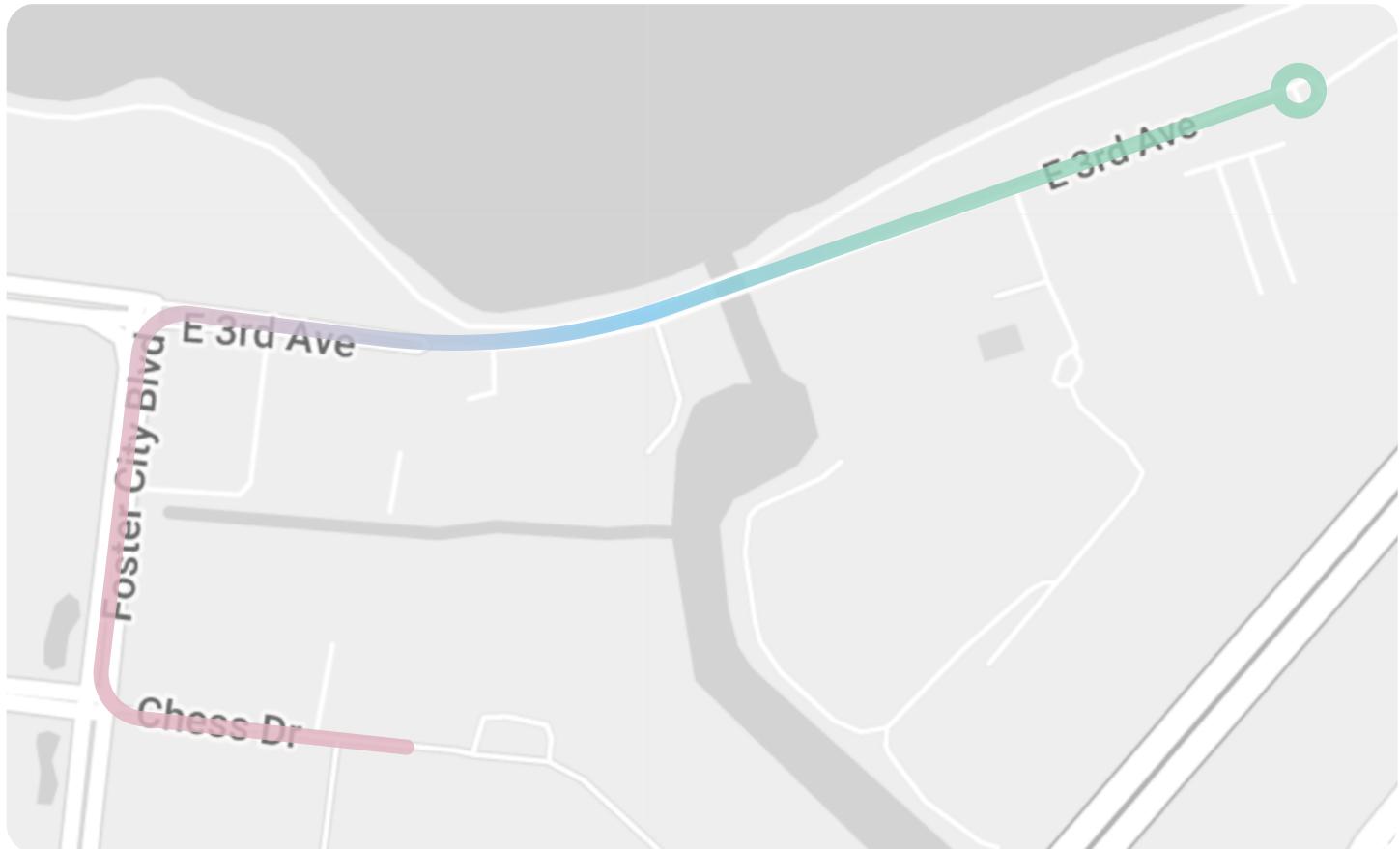




(833) 322-2277

DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

Zoox will conduct driverless operations near its headquarters in Foster City, California, within the areas depicted below.



Street Name	Speed Limit (mph)	Type of Road	Within Zoox ODD
Chess Dr	25	Commercial	Yes
Foster City Blvd	35	Commercial	Yes
East 3rd Ave	40	Commercial	Yes



DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

The Zoox robotaxi is capable of operating in the following conditions:

- During the day and night
- Conditions with mist, drizzle, and moderate rain
- Conditions with light fog, haze, or smoke
- On paved roadways with a surface condition of dry, damp, or wet
- On all public roads and roadway types within the image above with a posted maximum speed of up to 40 mph in Foster City and 25 mph in San Francisco

Conditions that currently fall outside of the Zoox robotaxi's driverless operations include:

- Conditions with heavy rain
- Conditions with snow, sleet, freezing rain, or hail
- Conditions with heavy fog, haze, or smoke
- Conditions with wind speed faster than 25 mph (steady or repeated gusting)
- On paved roadways with a surface condition of very wet, flooded, or icy
- On paved roadways that are obscured by large puddles, snow, sand, gravel, large quantities of leaves, or other debris



(833) 322-2277

Appendix II: San Francisco, CA

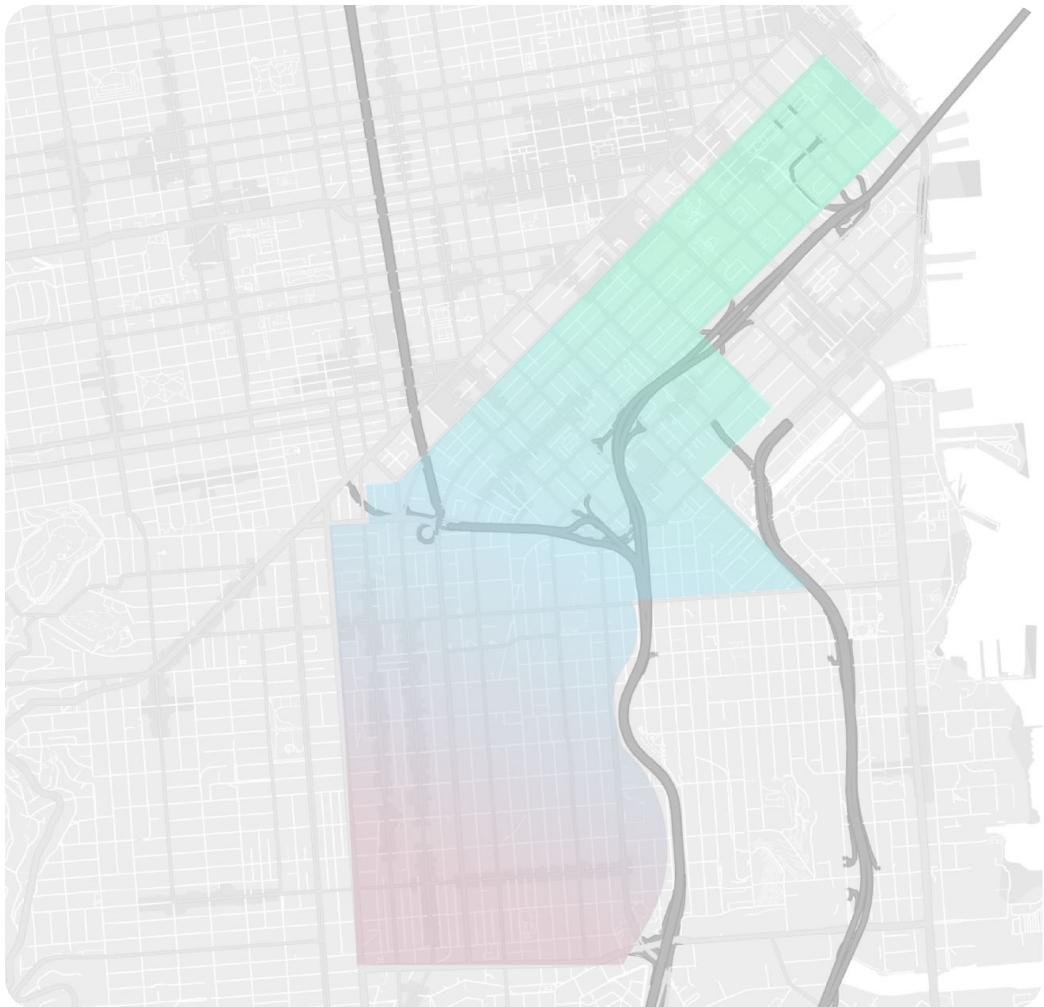




(833) 322-2277

DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

Zoox will conduct driverless operations in San Francisco, California, within the areas depicted below.





DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

The Zoox robotaxi is capable of operating in the following conditions:

- During the day and night
- Conditions with mist, drizzle, and moderate rain
- Conditions with light fog, haze, or smoke
- On paved roadways with a surface condition of dry, damp, or wet
- On all public roads and roadway types within the image above with a posted maximum speed of up to 40 mph in Foster City and 25 mph in San Francisco

Conditions that currently fall outside of the Zoox robotaxi's driverless operations include:

- Conditions with heavy rain
- Conditions with snow, sleet, freezing rain, or hail
- Conditions with heavy fog, haze, or smoke
- Conditions with wind speed faster than 25 mph (steady or repeated gusting)
- On paved roadways with a surface condition of very wet, flooded, or icy
- On paved roadways that are obscured by large puddles, snow, sand, gravel, large quantities of leaves, or other debris



(833) 322-2277

Appendix III: Las Vegas, NV

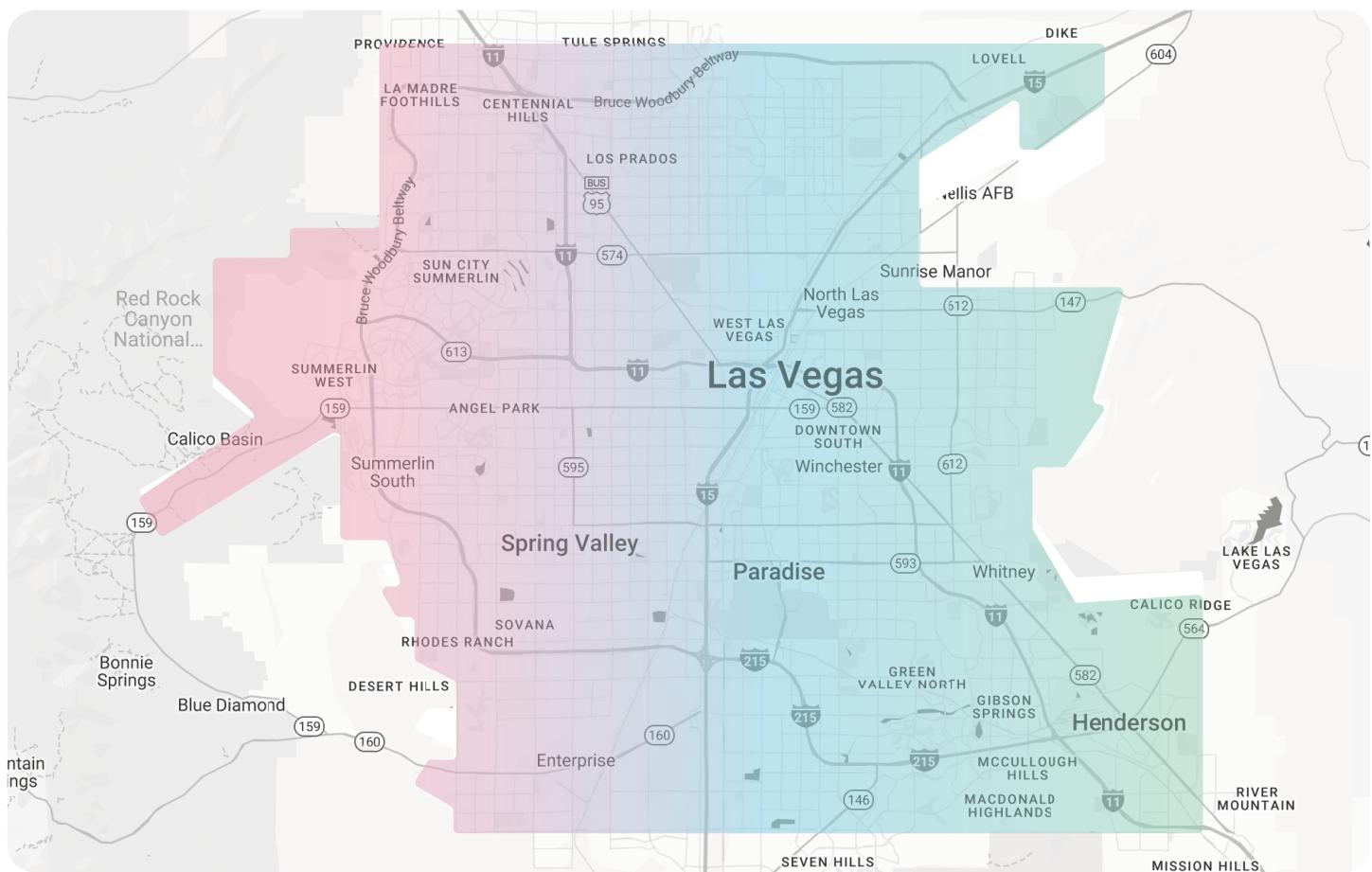




(833) 322-2277

DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

Zoox will conduct driverless operations in Las Vegas, Nevada, within the areas depicted below.





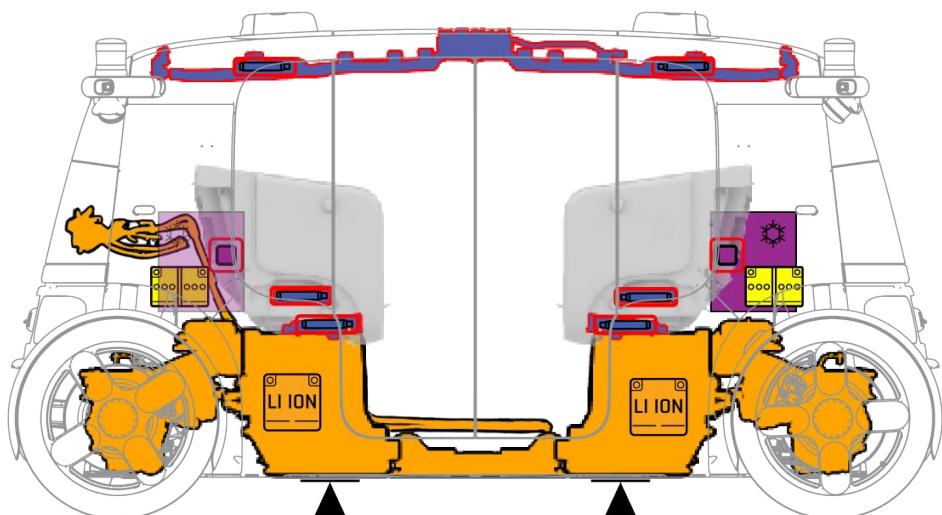
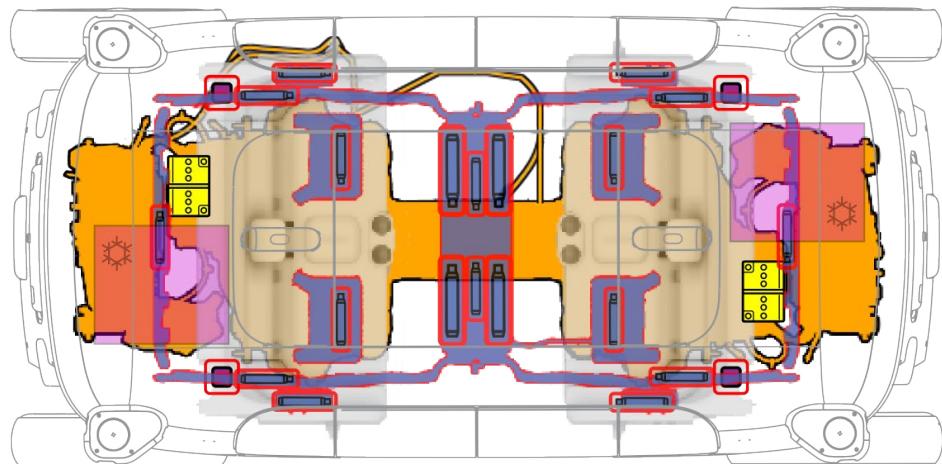
DESCRIPTION OF THE OPERATIONAL DESIGN DOMAIN (ODD)

The Zoox robotaxi is capable of operating in the following conditions:

- During the day and night
- Conditions with mist, drizzle, and moderate rain
- Conditions with light fog, haze, or smoke
- On paved roadways with a surface condition of dry, damp, or wet
- On all public roads and roadway types within the image above with a posted maximum speed of up to 45 mph in Las Vegas

Conditions that currently fall outside of the Zoox robotaxi's driverless operations include:

- Conditions with heavy rain
- Conditions with snow, sleet, freezing rain, or hail
- Conditions with heavy fog, haze, or smoke
- Conditions with wind speed faster than 25 mph (steady or repeated gusting)
- On paved roadways with a surface condition of very wet, flooded, or icy
- On paved roadways that are obscured by large puddles, snow, sand, gravel, large quantities of leaves, or other debris

ZOOX**ZOOX**
From 2024-

	Airbag		Stored gas inflator		Seat belt pretensioner		Carbon structure		High strength zone
	High Voltage battery pack		High Voltage power cable		High Voltage component		High Voltage ultra-capacitor		
	Low voltage battery		Low voltage ultra-capacitor		Lifting point		Air conditioning component		
Contact Zook: (833) 322-2277 safety@zook.com		ID no.		Version No.		Version Date		Page No.	
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1. IDENTIFICATION / RECOGNITION

FEATURES

- Symmetrical
- Sensor pods on each quarter of the body
- Robotaxi doors on each side of the body
- No steering wheel
- 2 carriage-style seats with room for 4 riders
- Unique Zoox sounds, including pre-recorded informational messages

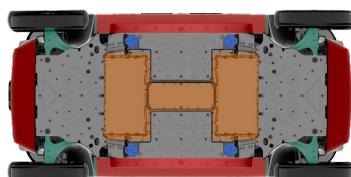
NORTH AND SOUTH

- Vehicle Identification Number (VIN): Bottom-right of the Service Bay window
- Zoox logo: Left side of the Service Bay panel, when facing the robotaxi
- License plate: Affixed to the front and/or rear of the robotaxi
- Driving direction reflectors: Below the tail lamps

SIDE

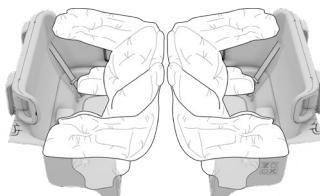
- Zoox logo: To the right of the door, visible through the quarter glass
- Zoox logo: On the reflective surface of the wheel
- Driving direction reflectors: At the bottom of the quarter glass window

2. IMMOBILIZATION / STABILIZATION / LIFTING



- Not suitable for stabilization/recovery
- Stabilization/Lifting points
- Recovery/Towing points
- HV components

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS



Autonomous Status Indications



Green status lights shown

ONLINE	■ - Green	Robotaxi is in autonomous mode.	HV enabled
OFFLINE [OFF] - [Unlit]		Robotaxi is NOT in autonomous mode.	HV off, LV on
OFFLINE	■ - Orange	Robotaxi is NOT in autonomous mode.	Charging
OFFLINE	■ - Purple	Robotaxi is NOT in autonomous mode.	HV on

If additional verification about the status of High Voltage or Autonomy mode is required beyond the visual signals described, contact Zoox Support at (833) 322-2277.

4. ACCESS TO THE OCCUPANTS

Door Status Indications



Functional - Green

To open the doors, press the door button once.

Not functional/Temporarily not functional - Unlit, Red, or Amber

The doors on the opposite side of the robotaxi may be accessible.

To reset the fault, press the door button once. If the fault can be reset, the light will change to green. If the fault cannot be reset, the light will remain unlit, red, or amber. Refer to Emergency Release Handle instructions.

Help - White

Press the door button to contact Zoox Support. This can also indicate there is a call active with Zoox Support via the door audio system.

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Emergency Release Handle



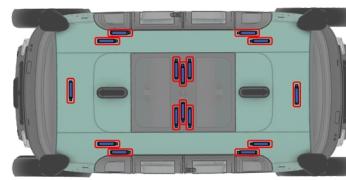
Two release handles are present, one for each door. When facing the door from the robotaxi exterior, the handle is on the right side.

To access, break glass, pull handle and step back. If the doors do not open automatically, pull and hold the handle at a 90 degree angle and manually open the right-side door.

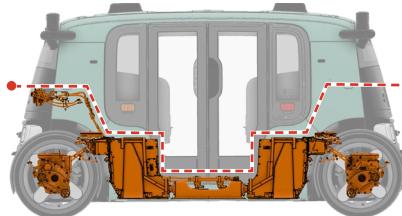
No Cut Zones



DO NOT CUT INTO
GAS INFLATOR
CYLINDERS



AIRBAG GAS
INFLATOR
CYLINDERS ARE
PRESENT IN THE
ROOF AND SEATS



DO NOT
CUT BELOW
THIS LINE

5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONNEL TO MOVE OR ALTER EQUIPMENT	DANGER • HV battery cells are sealed and do not have enough electrolyte to form a pool of liquid • The batteries are cooled with pink coolant • A clear fluid is most likely water • Use a Thermal Imaging Camera or Infrared to monitor the battery temperature
--	---	---

6. IN CASE OF FIRE



Apply constant and copious amounts of water (as high as 40,000 gallons) onto the HV batteries until risk to the surrounding environment is contained.

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ZOOX	Emergency Rescue Sheet	
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	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT	DANGER <ul style="list-style-type: none"> • HV battery cells are sealed and do not have enough electrolyte to form a pool of liquid • The batteries are cooled with pink coolant • A clear fluid is most likely water • Use a Thermal Imaging Camera or Infrared to monitor the battery temperature
--	---	---

7. IN CASE OF SUBMERSION

	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT	DANGER <ul style="list-style-type: none"> • Potential risk of an HV battery fire • Damaged HV batteries may discharge harmful fumes and gases
--	---	---

8. TOWING / TRANSPORTATION / STORAGE



Height	6 ft 5 in (1949mm)
Length	11 ft 11 in (3630 mm)
Width	5 ft 10 in (1774.2 mm)
Weight	5842 lbs (2650 kg)

9. IMPORTANT ADDITIONAL INFORMATION

Zoox robotaxis are capable of detecting that they have been involved in a collision. The robotaxis will immediately notify Zoox Support and perform the following procedures:

- Safely stop
- Disconnect the HV if certain crash conditions are met
- Enable the EPB and service brakes
- Set Active Suspension to Passive
- Maintain exterior lights
- Turn on the hazard lights
- Unlock the doors to allow door access
- Present the "Door Open" screen on the touchscreen
- Turn off HVAC

Zoox Support remotely monitors the vehicle in real time for any indications of safety risks or events.

10. EXPLANATION OF PICTOGRAMS USED

	Electric Vehicle Propulsion		Use thermal Infrared camera		Flammable
	Battery pack, high-voltage		Break to obtain access		Explosive
	Battery, low-voltage		Use water to extinguish the fire		Corrosives
	Warning, Electricity		Gases under pressure		Hazardous to the human health
	General warning sign		Acute toxicity		

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ZOOX

EMERGENCY RESPONSE GUIDE

INFORMATION FOR EMERGENCY RESPONDERS FOR
AUTONOMOUS ZOOX ROBOTAXIS



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Emergency Response Guide Summary

The Emergency Response Guide is intended for use by all emergency responders in the jurisdictions where Zoox operates the Zoox robotaxi. This Guide provides safety information and suggested best practices on how to safely interact with a Zoox electric robotaxi in the event of an emergency.

This document outlines suggested practices for emergency responder interaction with the following:

- **Zoox Remote Operators:** Remote support for riders, the Zoox electric robotaxi, and emergency responders. Zoox Remote Operators can disengage autonomy, can play prerecorded messages through the external audio system, and may be contacted via the door audio system.
- **Zoox Support Team:** On-site support for law enforcement, emergency responders, vehicle transporters, etc. These representatives have the appropriate training and equipment to assist with towing the robotaxi and to disable autonomous mode, among other capabilities.
- **Riders:** Passengers in the robotaxi, who are **not** the appropriate point of contact for engaging with law enforcement, emergency responders, etc.

CONTACT ZOOX REMOTE OPERATORS

(833) 322-2277

Zoox Remote Operators are available at all times that the robotaxi is in operation.

Before interacting with a Zoox electric robotaxi, call Zoox Remote Operators to confirm the robotaxi has safely stopped and autonomous mode is inactive. Zoox Remote Operators may be contacted through the external door audio system on the robotaxi, in addition to the phone number provided in this Guide.

Have the following available at the time of the call with Zoox Remote Operators:

- License Plate Number
- Location Information

For non-emergencies or general questions, call **(833) 322-2277** or email safety@zoox.com.

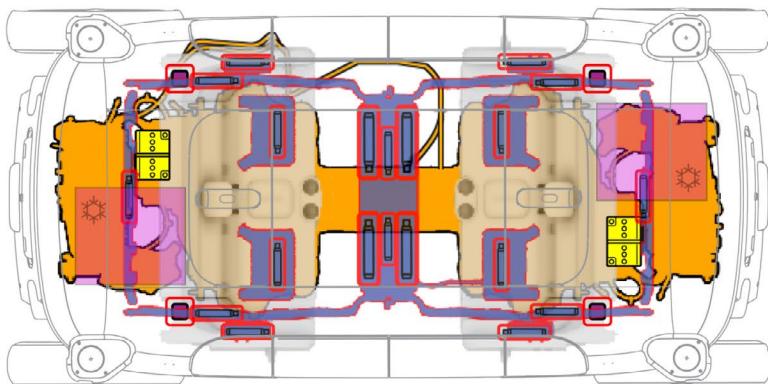
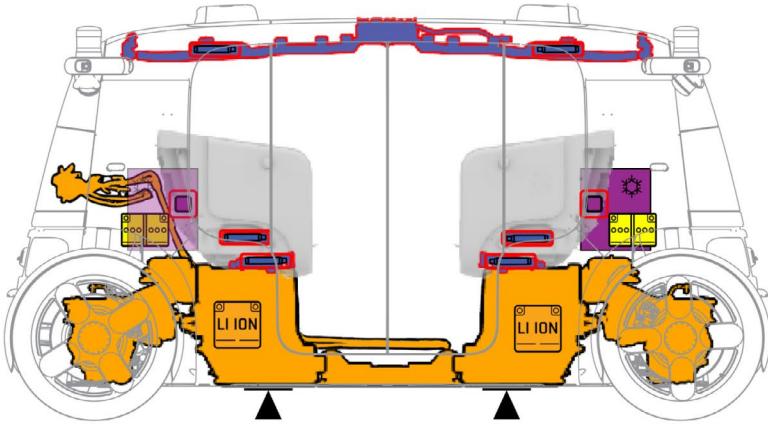
RECOMMENDATIONS FOR EMERGENCY RESPONDER TOOLS

In emergency situations related to a Zoox robotaxi, the following tools are recommended:

- | | |
|--------------------------|---|
| • Halligan Bar | • Personal Protective Equipment (PPE) |
| • Hydraulic Cutter | • Rescue Stabilization Jacks |
| • Hydraulic Spreader | • Self-contained Breathing Apparatus (SCBA) |
| • Insulated Cable Cutter | • Shatter Hammer |
| • Insulated Gloves | • Thermal Imaging Camera (TIC) or Infrared (IR) |
| • Metal Circular Saw | • Wheel Chocks or Cribbing |

	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT	DANGER HV HAZARD <ul style="list-style-type: none">• Always assume the High Voltage (HV) system in the Zoox robotaxi is energized• During a fire, beware of pressurized components that could fail, rupture, or suddenly release• Specific equipment may be required for certain steel components
--	--	--

0. RESCUE SHEET

ZOOX	Zoox From 2024-								
									
									
									
	Airbag		Stored gas inflator		Seat belt pretensioner		Carbon structure		High strength zone
	High Voltage battery pack		High Voltage power cable		High Voltage component		High Voltage ultra-capacitor		
	Low voltage battery		Low voltage ultra-capacitor		Lifting point		Air conditioning component		
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1. IDENTIFICATION / RECOGNITION

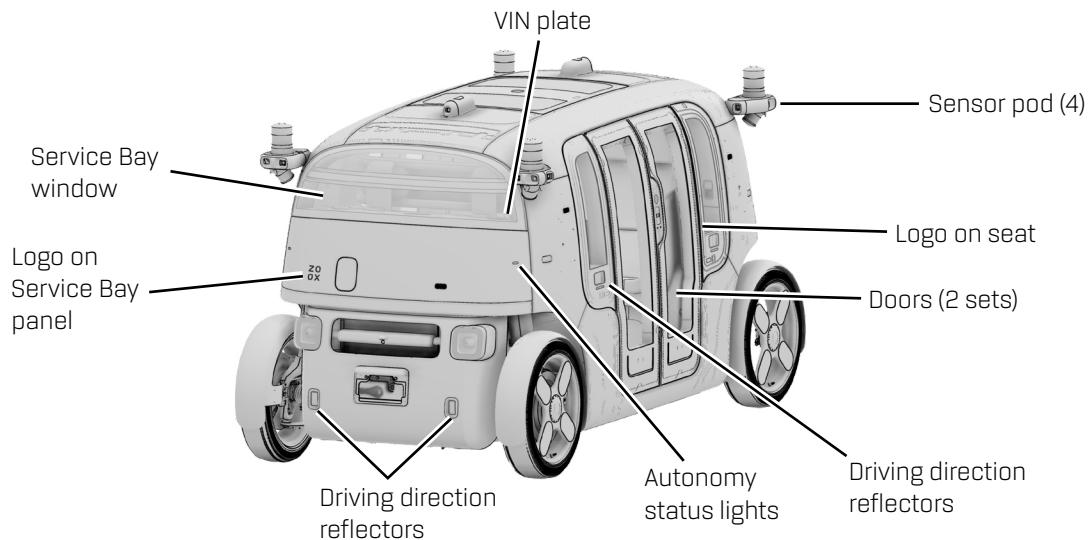
IDENTIFY ZOOX ELECTRIC ROBOTAXIS

Zoox robotaxis are symmetrical. Unlike conventional human-driven cars, the front and rear look identical.

The robotaxis are all-electric, autonomous passenger vehicles. They are road-ready and meet all applicable state and federal laws. The illustration below helps identify an electric and autonomous Zoox robotaxi:

Features

- Capability to reverse path of travel without turning around
- Sensor pods on each quarter of the body
- Robotaxi doors on each side of the body
- No steering wheel
- Two carriage-style seats with capacity for up to four riders
- Fully electric motor and propulsion
- Unique Zoox sounds when a rider interacts with the robotaxi
- Informational and instructional pre-recorded messages, played through the external audio system



NORTH AND SOUTH	SIDE
<ul style="list-style-type: none"> Vehicle Identification Number (VIN): Bottom-right of the Service Bay window Zoox logo: Left side of the Service Bay panel, facing the robotaxi License plate: Affixed to the front and/or rear of the robotaxi Driving direction reflectors: Below the tail lamps 	<ul style="list-style-type: none"> Zoox logo: To the right of the door, visible through the quarter glass window Zoox logo: On the reflective surface of the wheel Driving direction reflectors: At the bottom of the quarter glass window

1. IDENTIFICATION / RECOGNITION

ZOOX VEHICLE INFORMATION AND DOCUMENTS



The following documents can be found in a document clip, placed inside the Chargeport door. The Chargeport door can be unlocked remotely by Zoox Remote Operators. If they are unable to assist, on-site Zoox Support Team members will be able to unlock the Chargeport door:

- Vehicle Registration
- Proof of Insurance
- State Permit(s)
- Zoox Contact Information and Business Cards

PROPELLION ENERGY SOURCE



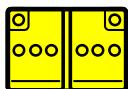
Electric Vehicle

High Voltage (HV) Battery (2):



- Lithium-ion
- 400V
- Located on the North and South side of the robotaxi beneath the rider seats.

Low Voltage (LV) Battery (2):



- Lead-Acid
- 12V
- Located on the North and South side of the robotaxi above the HV batteries.

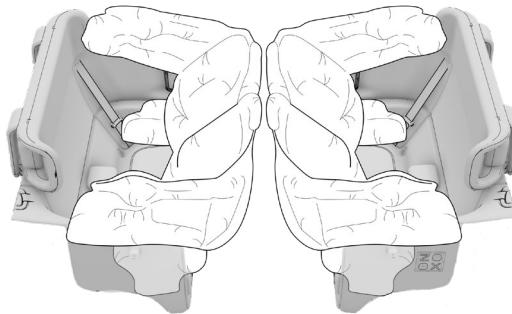
1. IDENTIFICATION / RECOGNITION

STATUS INDICATIONS

High Voltage (HV) Status Indications

Zoox robotaxis have the capability to indicate if HV is active or inactive. To determine if the HV system is on, approach the robotaxi and look for the following indicators:

- If **any** airbags are deployed, HV is inactive
- If airbags are undeployed, always assume that HV is active



- A secondary indicator is the Service Bay Indicator color:

ONLINE  - Green	Robotaxi is in autonomous mode.	HV enabled
OFFLINE [OFF] - [none]	Robotaxi is not in autonomous mode.	HV off, LV on
OFFLINE  - Orange	Robotaxi is not in autonomous mode.	Charging
OFFLINE  - Purple	Robotaxi is not in autonomous mode.	HV on

NOTE:

- HV discharges to <60V in 5 seconds, post-airbag deployment
- HV has an internal energy reserve which allows it to retain charge **up to 2 minutes** after shutdown; Battery charge depletes to almost 0V (zero volts) after a maximum of 2 minutes
- The low voltage system maintains lights, audio/video communications, and powered door function for up to 5 minutes following a crash
- Remote Operators are notified if the vehicle has been involved in a collision. Some minor contact with the vehicle, such as grazing or contact with small or soft objects, may not be detectable by the system.
- A prerecorded message may be playing through the external audio system

Autonomous Mode Status Indications

⚠️ IMPORTANT

Emergency responders cannot disable autonomous mode without the assistance of Zoox Remote Operators or appropriately trained and equipped on-site Zoox Support Team members.

Call: **(833) 322-2277**

Have the following available at the time of the call:

- License Plate Number
- Location Information

1. IDENTIFICATION / RECOGNITION

Autonomous Mode is Active

Zoox robotaxis have service bay exterior light indicators to identify whether the robotaxi is in autonomous mode. The robotaxi is in autonomous mode if the service bay indicators are green, as depicted in the picture below.



ONLINE  - Green

Robotaxi is in autonomous mode.

Autonomous Mode is Inactive

The robotaxi **IS NOT** in autonomous mode if service bay indicators are off (unlit), orange, or purple. **HV may be enabled**. An example of unlit service bay indicators is depicted below.



OFFLINE   

Off/Orange/Purple

Robotaxi is **NOT** in autonomous mode.

NOTE:

- In the event of a collision, autonomous mode is disabled
- A prerecorded message may be playing through the external audio system

Hazard lights

Hazard lights, or the outer half of each headlight (C-shaped) on both sides, may flash amber as a visual indicator of caution to other road users.



Front View



Rear View

NOTE: A prerecorded message may be playing through the external audio system

2. IMMOBILIZATION / STABILIZATION / LIFTING

VERIFY THE ROBOTAXI IS OFF

Zoox robotaxis are fully electric, which means there is not typical combustion engine noise. The robotaxi is **ON** if HV is active and **OFF** if HV is inactive. Additionally, there are 2 Low Voltage (LV) 12V DC batteries to support some robotaxi systems.

To determine if the robotaxi is ON or OFF:

- For a crash in which airbags have deployed, HV is disconnected pyrotechnically
- For a crash in which airbags have **NOT** deployed, HV must be disconnected by Zoox Remote Operators or on-site Zoox Support Team members
- The robotaxi does not disconnect LV after a crash. LV is only disabled after a crash as a result of physical damage or if the LV battery power drains completely

CHOCK WHEELS

	WARNING
	<ul style="list-style-type: none">• Automated rotating parts• Ensure the area near the wheels is free and clear of all personnel• Ensure no foreign objects or charging cables are in the way

⚠️ IMPORTANT

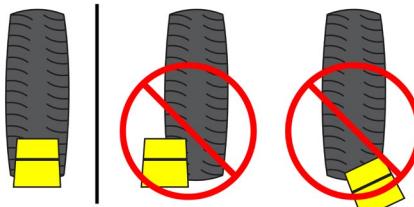
Considerations and safety best practices when using wheel chocks on a Zoox robotaxi:

- Use wheel chocks or cribbing in pairs
- Tire size: 185/60R22
- Tire type: 4x Radial

Zoox's recommended steps to safely and properly chock the wheels:

1. Place 2 chocks snugly in the front and back of a single tire tread.

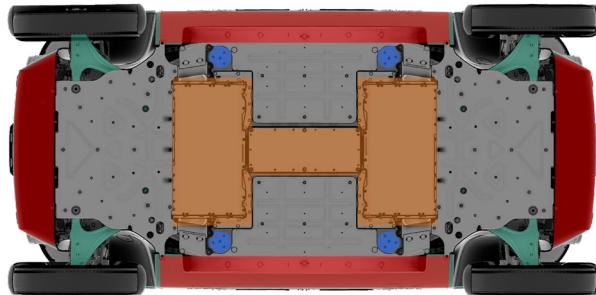
NOTE: Ensure the chock is centered and squared with the tire



2. Chock both of either the North or South wheels.

2. IMMOBILIZATION / STABILIZATION / LIFTING

STABILIZATION / LIFTING



■	Not suitable for stabilization/recovery
■	Stabilization/Lifting points
■	Recovery/Towing points
■	HV components

		DANGER
		HV HAZARD <ul style="list-style-type: none"> Be careful to not damage the HV battery pack when lifting the robotaxi Do not stabilize or lift the robotaxi using the HV battery areas Potential risk of fluid leaks When lifting, ensure the robotaxi is clear of personnel, tools, and components

⚠️ IMPORTANT

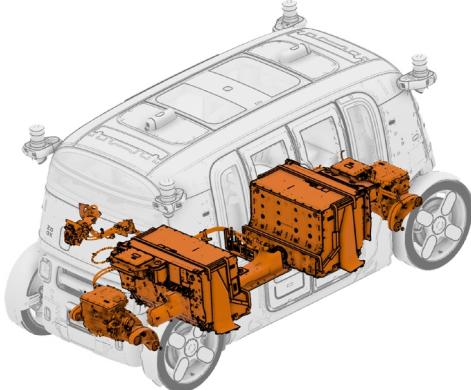
Considerations and safety best practices when stabilizing or lifting a Zoox robotaxi:

- Wear PPE
- Insulated gloves
- Stabilization and vehicle jacks
- Safe lifting devices
- Wheel chocks or cribbing

Height	6 ft 5 in (1949mm)
Length	11 ft 11 in (3630 mm)
Width	5 ft 10 in (1774.2 mm)
Weight	5842 lbs (2650 kg)

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS

HIGH VOLTAGE (HV) BATTERY POWER



 	DANGER HV HAZARD
<ul style="list-style-type: none"> Interacting with HV is extremely dangerous and can result in serious injury or death Always assume the HV system is energized Risk of HV Electrocution 	

⚠️ IMPORTANT

THERE IS NO METHOD FOR EMERGENCY RESPONDERS TO DISABLE HV.

- Always use caution around HV
- Wear proper PPE

IF ANY AIRBAGS ARE DEPLOYED, HV WILL BE DISCONNECTED IN ≤5 SECONDS.

NOTE:

- Call Zoox Remote Operators: **(833) 322-2277**
- Have the location and license plate number available

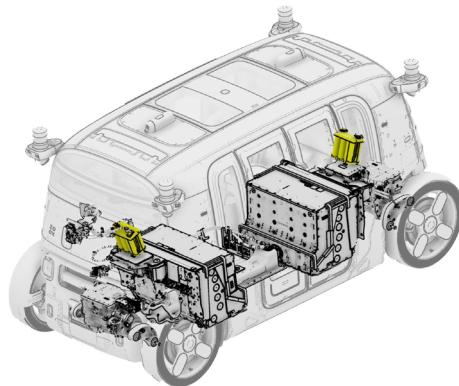
Zoox robotaxis have 2 separate but connected HV (400V DC Lithium-ion) batteries on the robotaxi (one per drive module) on each side of the robotaxi beneath the rider seats. Each HV component, including the HV battery, is connected to the drive module ground via Potential Equalization (PE) cables. The 2 HV batteries function as one battery. However, if one HV battery malfunctions due to a non-safety critical failure, the other HV battery continues to power all systems with no loss in robotaxi function. For any safety-critical failure of either battery, the robotaxi disables the HV system.

NOTE:

- In the event of a collision resulting in airbag deployment, Zoox robotaxis are equipped with 2 pyrotechnic fuses to disconnect power to the contactors in both HV batteries
- HV discharges to <60V in 5 seconds, post-airbag deployment
- HV has an internal energy reserve which allows it to retain charge up to 2 minutes after shutdown; Battery charge depletes to almost 0V (zero volts) after a maximum of 2 minutes

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS

LOW VOLTAGE (LV) BATTERY POWER



	DANGER <ul style="list-style-type: none">Electric hazard when interacting with LVInteracting with LV is dangerous and can result in serious injury, damage, or deathChemical hazards may exist from the battery outgassing or exploding
--	--

⚠️ IMPORTANT

THERE IS NO METHOD FOR EMERGENCY RESPONDERS TO CUT 12V POWER.

The robotaxi does not disconnect LV after a crash. LV is only disabled after a crash as a result of physical damage or if the LV batteries drain completely.

NOTE:

- Call Zoox Remote Operators: **(833) 322-2277**
- Have the location and license plate number available

3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS

DISABLE AIRBAGS



	DANGER
	<ul style="list-style-type: none">The Airbag Control Unit (ACU) has an internal energy reserve which allows it to remain powered 1-2 minutes after loss of LV powerFailure to follow Zoox instructions can result in serious injury, damage, or deathThe ACU has a backup power supply and is powered as long as LV is energized

⚠️ IMPORTANT

UNDEPLOYED AIRBAGS MAY BE PRESENT. THERE IS NO METHOD FOR EMERGENCY RESPONDERS TO DISABLE THE 12V AIRBAG SYSTEM.

Considerations for airbags in Zoox robotaxis:

- If any airbags are deployed, HV is disabled
- Potential static electricity risk
- Do not come into contact with the airbag inflators
- Not all airbags deploy during a collision. Depending on the collision and the occupancy of the robotaxi, only certain airbags will deploy
- The ACU has backup power from the LV system

4. ACCESS TO THE OCCUPANTS

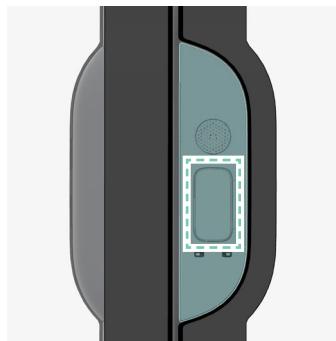
Extract Occupants

If a robotaxi has **not** been in a collision, there are three options to open the doors:

1. Occupants open doors via the in-cabin touchscreen.
2. Emergency responders use the door button to open doors.
3. Occupants or emergency responders contact Zoox Remote Operators to open the doors.

If a robotaxi has been in a collision or is experiencing a system fault, the above options for door operation may not function as intended. Emergency responders can attempt to use the door button on either side of the robotaxi, or can break the quarterglass and actuate the Emergency Release handle to gain access to the occupants. A prerecorded message may be playing through the external audio system.

DOOR BUTTON STATUS INDICATIONS



COLOR	STATUS	INSTRUCTIONS
	Green: Door Access is Functional	Press the door button (shown in the image) once to open the doors.
	White HELP: Door Control Unavailable	Press the door button to contact Zoox Remote Operators. This can also indicate there is a call active with Zoox Remote Operators via the door audio system.
	Unlit: Door Control Unavailable	If the door button is unlit, door control is unavailable.
	Amber: The Door Function is Temporarily Stopped	Press the door button once. If the door button status turns green, function has returned. If the door button continues to show amber and the doors cannot be manually opened, refer to "Emergency Release handle" instructions.
	Red: Door Access is Not Functional	The doors cannot be opened from this side of the robotaxi. Try the doors on the opposite side of the robotaxi or refer to the "Emergency Release handle" instructions.

⚠️ IMPORTANT

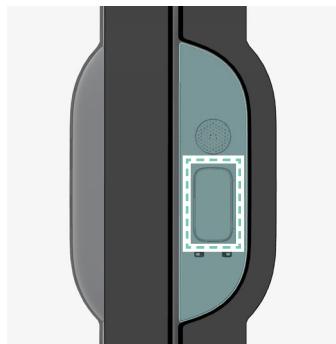
- Powered door operation is maintained until the 12V batteries drain, approximately 5 minutes after a crash

4. ACCESS TO THE OCCUPANTS

NOTE:

- Ensure autonomous mode is deactivated by calling Zoox Remote Operators at **(833) 322-2277**
- Have the location and Zoox license plate number available

Steps to Open the Doors with the Door Button:



1. Locate the door button (highlighted in the image above).
2. Press the door button once to open the doors.

NOTE: If the door button is red or amber, press the door button once to reset. The status changes to green. If it does not change and doors cannot be opened, follow the instructions for the "Emergency Release handle"

EMERGENCY RELEASE HANDLE



There are 2 release handles on opposite sides of the robotaxi rider cabin, one for each set of doors. When facing the door from the robotaxi exterior, the handle is on the right side.

	CAUTION
	<ul style="list-style-type: none">• Be careful when breaking glass, as sharp shards of glass may pierce the skin• Wear PPE

4. ACCESS TO THE OCCUPANTS

⚠️ IMPORTANT

- The doors require force to open manually. If possible, the door should be pulled at the bottom for maximum efficiency
- If airbags are deployed due to a collision, graphics on the airbags show the location and operation of the Emergency Release handle
- In a crash, a flashing red light across from the Emergency Release handle will illuminate the location of the handle
- A prerecorded message may be playing through the external audio system

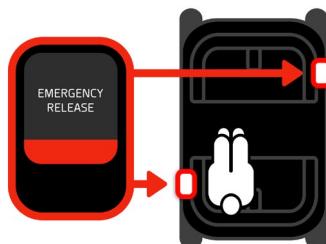
NOTE:

- Ensure autonomous mode is deactivated by calling Zoox Remote Operators at **(833) 322-2277**
- Have the location and Zoox license plate number available

Steps to use the Emergency Release Handle:

Occupants can actuate the Emergency Release handle to open the door. If the handle cannot be actuated by the cabin occupants, emergency responders can break glass from the exterior of the robotaxi to access the Emergency Release handle. If a crash has occurred, a flashing red light across from the Emergency Release handle will illuminate the location of the handle. A prerecorded message may be playing through the external audio system.

1. Two Emergency Release handles are available, one on either side of the robotaxi rider cabin.



2. Pull the Emergency Release handle to a 90 degree angle to release the door latch. The door latches release and if power remains, the system attempts to open automatically. Step back from the robotaxi as the doors open. If no power remains, the handle will need to be held in the pulled-up position while the right-side door is opened manually.

4. ACCESS TO THE OCCUPANTS

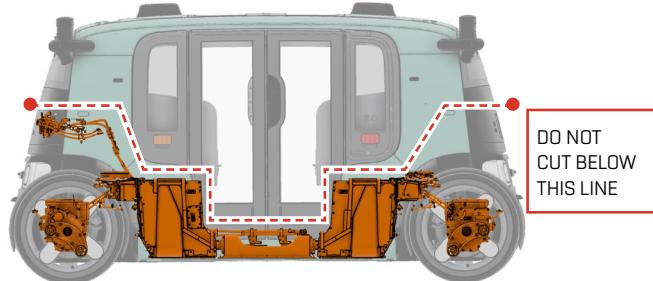
NOTE: In the event of a crash that resulted in "Horseshoe Airbags" deployment, a flashing red light illuminates the Emergency Release handle position and graphics on the outward-facing side of the airbags show its location and operation. The graphic is only visible through the quarter panel glass (i.e. the glass next to the Release Handle - see image below)



CUT AND NO CUT ZONES

Primary extrication access is side door removal.

Secondary extrication access is roof panel removal.



4. ACCESS TO THE OCCUPANTS

		DANGER
		HV HAZARD <ul style="list-style-type: none"> • Cutting into the No Cut Zones may cause severe injury, damage, or death • Risk of HV electrocution: HV system components contain lithium-ion battery packs, HV cables (up to 400V DC), traditional vehicle batteries (12V DC), triggering devices, and compressed gas • HV system components are located beneath the rider seats and floor

	WARNING <ul style="list-style-type: none"> • Damage to the No Cut Zones may discharge harmful gases and fluids • Potential risk of fluid leaks
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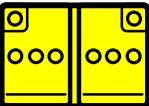
⚠️ IMPORTANT

DO NOT CUT OR DAMAGE THE NO CUT ZONES

Considerations and safety best practices when approaching Zoox robotaxis:

- Airbag gas inflators are located in the roof and under the rider seats
- Wear PPE
- Wear SCBA

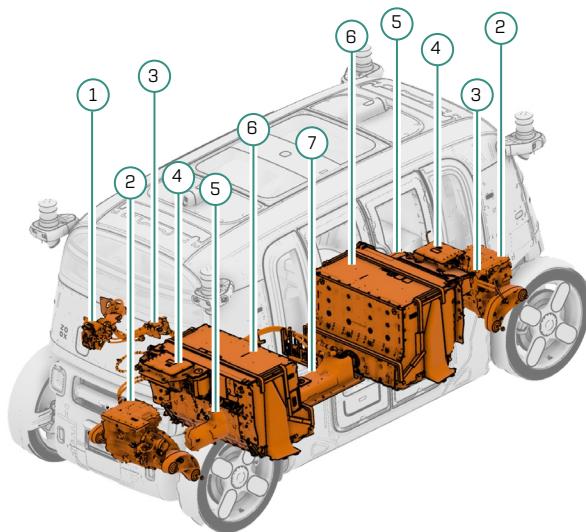
5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

	12V				
	400V				

		DANGER HV HAZARD <ul style="list-style-type: none">• HV battery cells are sealed and do not have enough electrolyte to form a pool of liquid• The batteries are cooled with pink coolant• A clear fluid is most likely water• Use a Thermal Imaging Camera or Infrared to monitor the battery temperature
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HIGH VOLTAGE SYSTEM

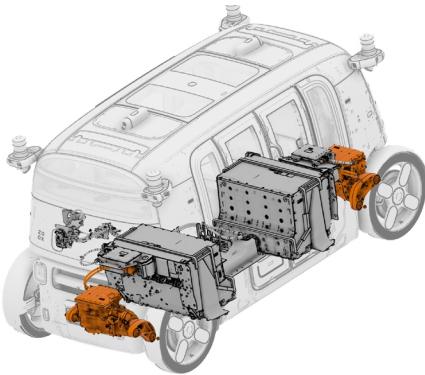
The HV system is sub-assembled to the robotaxi chassis and 12V DC systems to form 2 integrated drive modules on the robotaxi. The HV system consists of the following components:



1. HV Vehicle Charge Inlet
2. Electric Drive Unit (EDU)
3. HV cables/harnesses
4. DC-DC Converter
5. Air Conditioning (AC) Compressor
6. High Voltage (HV) Battery
7. HV Battery Interconnect

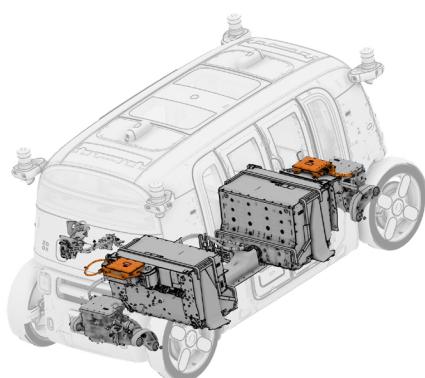
5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

Electric Drive Unit (EDU)



2 EDUs, 1 for each drive module, provide the torque to accelerate and decelerate the robotaxi. Each EDU is connected to the nearest HV battery through an HV cable.

DC-DC Converter



There are 2 DC-DC Converters that are located on top of each HV battery. They are liquid-cooled devices that convert 400V DC power to 12V DC LV power through an HV cable connected to the HV battery.

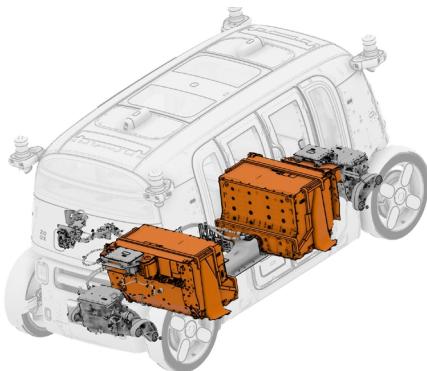
Air Conditioning (AC) Compressor



The AC Compressor is powered by the HV system. Zoox robotaxis have 2 AC compressors on the robotaxi, 1 within each drive module. Within their respective drive module, they are connected to the HV battery through an HV cable.

5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

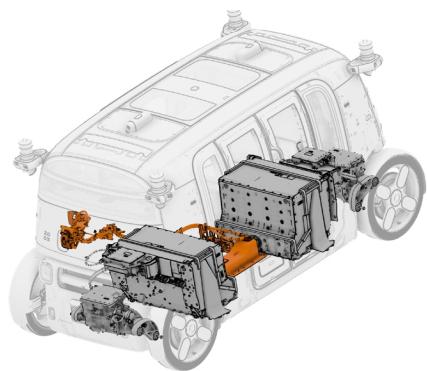
High Voltage (HV) Battery



Zoox robotaxis use a self-contained 400V DC lithium-ion HV battery. There are 2 separate but connected HV batteries on the robotaxi (1 per drive module) on each side beneath the rider seats. Each HV component, including the HV battery is connected to the drive module ground via Potential Equalization (PE) cables. If 1 HV battery experiences a non-safety-critical failure, the other HV battery continues to power all systems with no loss in robotaxi function. For safety-critical failures of either battery, the HV system is disabled. The robotaxi HV system consists of HV Battery, AC Compressor, DC-DC Converter, EDU, and HV Battery Interconnect, all connected through HV cables to form one parallel HV circuit. Each HV battery contains the following:

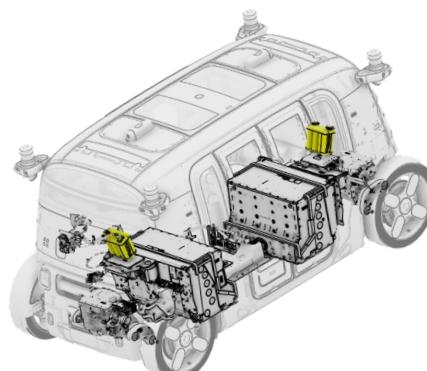
- 3456 Li-ion Battery Cells
- 6 Modules/Packs
- 1 High Voltage Junction Box
- 1 Outer Enclosure
- 2 Potential Equalization (PE) cables

HV Battery Interconnect & Charge Inlet



The HV Battery Interconnect is located on the underside of the Zoox robotaxi. It charges the robotaxi by connecting to both the HV batteries and pairing them with the HV Vehicle Charge Inlet to an external charger.

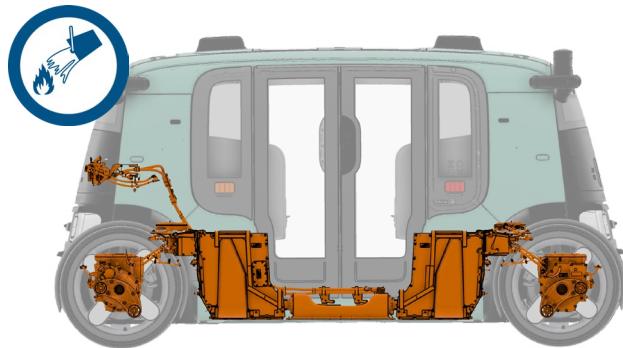
LOW VOLTAGE SYSTEM



Zoox robotaxis have two 12V DC batteries that manage the doors, touchscreens, interior and exterior lights, airbags, seatbelts, seat restraint system, and in-cabin camera. Following a crash where HV is disabled, the low voltage system provides power to the audio link with Zoox Remote Operators, interior camera, lights, and door functions for up to 5 minutes.

6. IN CASE OF FIRE

EXTINGUISH A ROBOTAXI FIRE



	DANGER 400 VOLTS DC HIGH VOLTAGE - ONLY QUALIFIED PERSONS TO MOVE OR ALTER EQUIPMENT	DANGER HV HAZARD <ul style="list-style-type: none"> Interacting with HV is extremely dangerous and may result in injury or death Inflammable, flammable and toxic materials from the leaked battery may enter the rider cabin or ignite the robotaxi Battery re-ignition may occur Using water to extinguish a robotaxi fire may result in a chemical reaction that may burn the skin if contact with the fluid is made Fire can compromise robotaxi components (airbags, inflation cylinders, gas struts, etc.) and may cause inflation cylinder explosions
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⚠️ IMPORTANT

Safety best practices for Zoox robotaxi fires involve defensive firefighting and environmental management to minimize risk. Fire extinguishing should only be conducted by firefighters or fire safety-trained persons.

When approaching a robotaxi fire:

- Wear Personal Protective Equipment (PPE)
- Wear Self-Contained Breathing Apparatus (SCBA)
- Use insulated tools for extinguishing fire
- Foam does not extinguish a battery fire

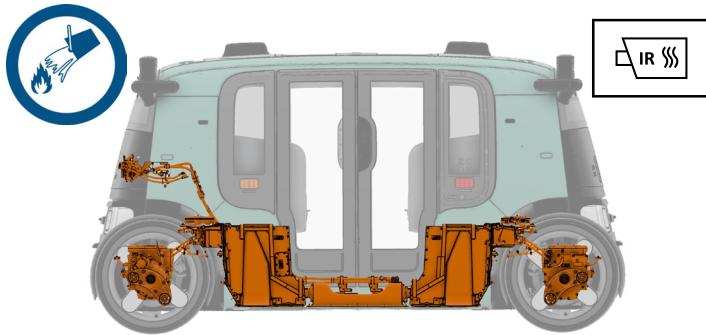
NOTE

- Always assume the HV is energized
- If any airbags are deployed, HV will be disconnected in <5 seconds
- Zoox Remote Operators have access to active battery diagnostics on the robotaxi
- Ensure autonomous mode is deactivated by contacting Zoox Remote Operators at (833) 322-2277
- Have the location and license plate number available

6. IN CASE OF FIRE

Steps to extinguish a robotaxi/battery fire:

1. Apply constant and copious amounts of water (as high as 40,000 gallons) onto the HV batteries until risk to the surrounding environment is contained.



NOTE:

- Only water keeps the battery from entering thermal runaway
- If water is not readily available, use CO₂, dry chemicals, or other fire-extinguishing agents to suppress the fire until water is available

2.  Monitor the battery temperature using a Thermal Imaging Camera (TIC) or Infrared (IR) during the cooling process.

NOTE:

- Cool down the battery if it is $\geq 302^{\circ}\text{F}$ (150°C)
- Optimal ambient temperature of the battery is $\leq 131^{\circ}\text{F}$ (55°C)

3. Apply water directly to any exposed areas and continue to monitor the battery structure.

NOTE: Ensure the loose battery cells or modules are submerged in water for at least 24 hours

4. Advise second responders (vehicle transporters, etc.) of the risk of battery re-ignition.

Inhalation in Fire Situations

	<p>DANGER</p> <ul style="list-style-type: none"> • Exposure to toxic vapors and gases may be released due to a battery fire and exposure to high heat levels, which include: <ul style="list-style-type: none"> • Cobalt • Copper • Lithium-ion • Nickel • Oxides of carbon • Sulfuric acid • Full PPE and SCBA must be worn while in contact or close proximity of the robotaxi. • Keep a safe distance while extinguishing an active battery fire with water. • Stay upwind to avoid inhalation of fumes or smoke.
---	--

7. IN CASE OF SUBMERSION

	DANGER <ul style="list-style-type: none"> Potential risk of an HV battery fire Damaged HV batteries may discharge harmful fumes and gases
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⚠️ IMPORTANT

Considerations and safety best practices for a submerged Zoox robotaxi:

- A submerged Zoox robotaxi should only be extracted by trained safety personnel
- Wear PPE
- Towing the robotaxi on a flatbed truck or trailer is preferred
- If the robotaxi has been submerged or shows signs of damage or outgassing, do not charge

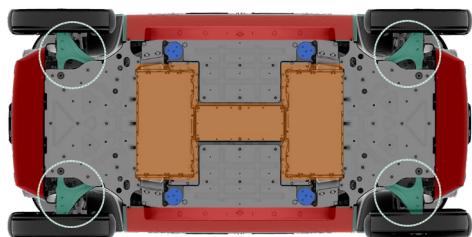
NOTE:

- Always assume the HV is energized*
- If any airbags are deployed, HV will be disconnected in ≤5 seconds*
- Call Zoox Remote Operators at (833) 322-2277*
- Have the location and license plate number available*

Steps to recover a robotaxi submerged in water:

- Install tow straps to the control arms at each wheel on one end of the robotaxi, as highlighted in green in the diagram.

NOTE: Towing the robotaxi from any areas other than those specified in the graphic may result in serious injury or damage to the robotaxi



	Not suitable for stabilization/recovery
	Stabilization/Lifting points
	Recovery/Towing points
	HV components

- Attach and use winch cables to pull the robotaxi out of the water.
- Allow the water to drain out of the robotaxi.
- Monitor for any indications of HV damage.
 - Smoke, fire, and/or gas emissions
 - Cooling or heating temperature trends

7. IN CASE OF SUBMERSION

NOTE:

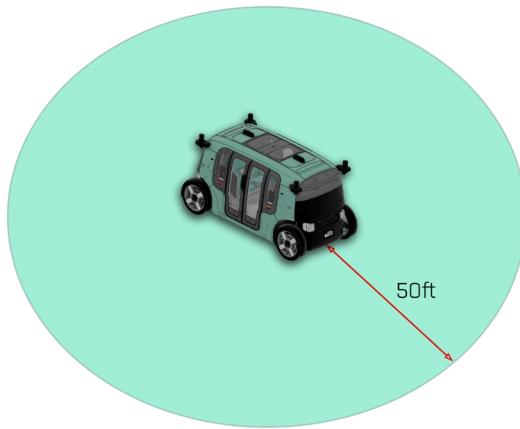
- If available, use a Thermal Imaging Camera or Infrared to monitor the battery temperature (the safe storage temperature of the battery is $\leq 131^{\circ}\text{F}$ [55°C])
- The above is not a complete list of HV damage indicators. Do not touch or move the damaged or submerged HV components, cables, etc.

5. If safe to proceed, load the robotaxi onto a flatbed tow truck.

NOTE: Do not tow a Zoox robotaxi with the wheels on the ground due to a potential risk of robotaxi damage and/or compromisation of the battery enclosure, which may result in a battery thermal event

6. Store the robotaxi at least 50 feet away from other vehicles, combustible materials, and/or structures. Use visual indicators or signage to identify the robotaxi as all-electric.

NOTE: Signage is available for printing in ["Appendix A"](#)



8. TOWING / TRANSPORTATION / STORAGE

TOW THE ROBOTAXI



 	<p>WARNING</p> <ul style="list-style-type: none"> Connecting the tow straps to areas other than specified may cause damage, serious injury, or death Due to the low profile, towing the robotaxi with the wheels on the ground may result in significant robotaxi damage Towing the robotaxi with the wheels on the ground may overheat the HV system and lead to a fire Using the chassis, frame, or suspension components to pull the robotaxi may result in damage to the robotaxi
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⚠️ IMPORTANT

- Before attempting to tow, ensure autonomous mode is deactivated. See "Autonomous Mode Status Indications"
- Towing the robotaxi on a flatbed truck or trailer is preferred
- Check overhead clearance limits. The Zoox robotaxi dimensions:

Height	6 ft 5 in (1949mm)
Length	11 ft 11 in (3630 mm)
Width	5 ft 10 in (1774.2 mm)
Weight	5842 lbs (2650 kg)

- Be careful not to scrape the battery pack when loading or unloading the robotaxi. Excessive vertical forces on the bottom of the battery may cause internal damage, increasing risk of a battery thermal event

NOTE

- In an emergency, push bumpers may be used to move the robotaxi, although this presents a risk of sensor damage*
- To confirm that the robotaxi has safely stopped and autonomous mode is deactivated, contact Zoox Remote Operators at (833) 322-2277*
- Have the location and license plate number available*
- Coordinate with Zoox Remote Operators or the on-site Zoox Support Team to tow the robotaxi*
- A prerecorded message may be playing through the external audio system*

8. TOWING / TRANSPORTATION / STORAGE

If the robotaxi cannot be moved under its own power, the robotaxi must be towed. See instructions and important safety information below.

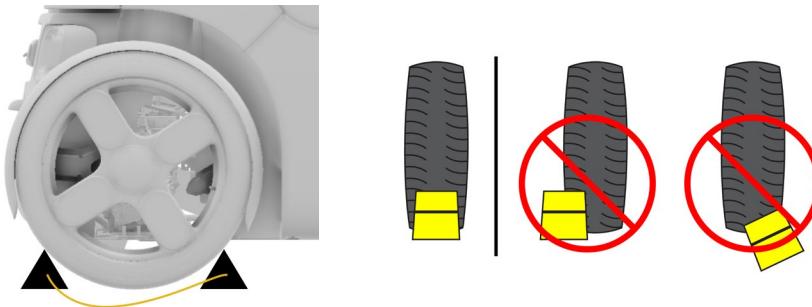
Steps to tow the robotaxi:

1. Before interacting with a Zoox robotaxi, observe the service bay indicators to ensure autonomous mode is inactive and EPBs are applied. Ensure the robotaxi is off. See "Autonomous Mode Status Indications".

NOTE:

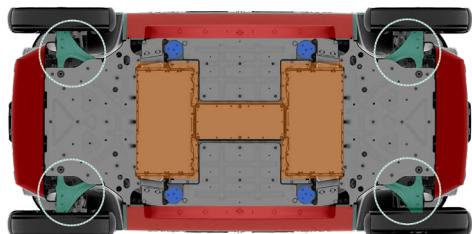
- Contact Zoox Remote Operators [(833) 322-2277] to confirm the robotaxi has safely stopped and autonomous mode is inactive
- A prerecorded message may be playing through the external audio system

2. Install wheel chocks under 2 wheels to prevent the robotaxi from rolling away.



3. Install tow straps to the control arms at each wheel on one end of the robotaxi, as highlighted in green in the diagram.

NOTE: Towing the robotaxi from any areas other than those specified in the graphic may result in serious injury or damage to the robotaxi



	Not suitable for stabilization/recovery
	Stabilization/Lifting points
	Recovery/Towing points
	HV components

4. Align the bed of the truck with the Zoox robotaxi so the robotaxi can be pulled straight onto the truck bed.
5. Attach winch cables to the tow straps. Activate the winch to remove slack in the tow straps. **Do not fully tighten.**
6. Install wheel skates under all 4 tires and remove wheel chocks.

NOTE: There is no way for the on-site Zoox Support Team to disengage the EPBs

7. Use winch cables to pull the robotaxi onto the flatbed of the tow truck.
8. Safely secure the robotaxi to the bed of the truck using the strap tie down method around the wheels. Once secure, release the tension from the winch cable and remove the wheel skates.

8. TOWING / TRANSPORTATION / STORAGE

NOTE: For enclosed trailers, the robotaxi can be further secured using wheel chocks if necessary

9. After offloading the robotaxi from the tow truck, chock the wheels.

STORE THE ROBOTAXI

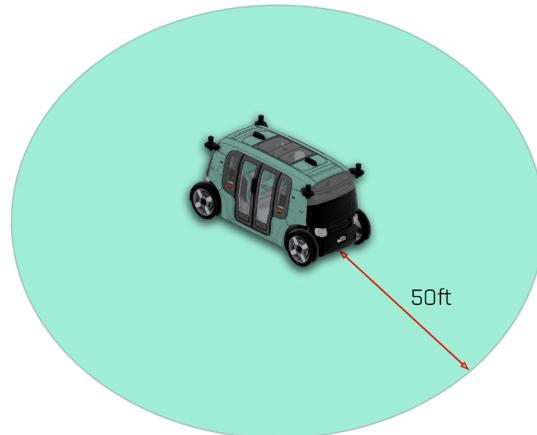
Zoox safety best practices and recommendations when storing a damaged Zoox electric robotaxi.

1. Use visual indicators or signage to identify the robotaxi as all-electric.

NOTE: Signage is available for printing in "[Appendix A](#)"



2. Store the robotaxi at least 50 feet away from other vehicles, combustible materials, and/or structures.



8. TOWING / TRANSPORTATION / STORAGE

		<p>DANGER</p> <p>HV HAZARD</p> <ul style="list-style-type: none"> Damage to HV components or battery may create an electrical safety hazard, resulting in severe injury or death Inflamed, flammable or toxic materials from the leaked battery may enter the passenger cabin or ignite the robotaxi Battery re-ignition may occur Fire can compromise robotaxi components (airbags, inflation cylinders, gas struts, etc.) and may cause inflation cylinder explosions
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⚠️ IMPORTANT

- Store the robotaxi outside, at least 50 feet away from other vehicles, combustible materials, and/or structures
- Check overhead clearance limits. The Zoox robotaxi dimensions:

Height	6 ft 5 in (1949mm)
Length	11 ft 11 in (3630 mm)
Width	5 ft 10 in (1774.2 mm)
Weight	5842 lbs (2650 kg)

- Be careful to not damage the battery pack when storing the robotaxi
- Ensure autonomous mode is inactive. See "[Autonomous Mode Status Indications](#)"

NOTE

- Always assume the HV is energized*
- If any airbags are deployed, HV will be disconnected in <5 seconds*
- If necessary, confirm the robotaxi has safely stopped and autonomous mode is deactivated by contacting Zoox Remote Operators at **(833) 322-2277***
- Have the location and license plate number available*

9. IMPORTANT ADDITIONAL INFORMATION

COLLISION RESPONSE AND ACTION



⚠️ IMPORTANT

- The window adjacent to the Emergency Release handle is illuminated with a flashing red light
- If airbags are deployed, graphics on the horseshoe airbags show the location and operation of the Emergency Release handle. See "[Emergency Release handle](#)"
- After a collision, the doors may not function properly
- Post-collision, a prerecorded message may be announcing via the external speakers, that autonomy is disabled
- If there is no on-site Zoox Support Team, call Zoox Remote Operators at **(833) 322-2277** and have the location and license plate number available

Zoox robotaxis are capable of detecting that they have been involved in a collision. The robotaxi immediately notifies Zoox Remote Operators and performs the following procedures:

- Safely stop
- Disconnect the HV if certain crash conditions are met
- Enable the EPB and service brakes
- Set Active Suspension to Passive
- Maintain exterior lights
- Turn on the hazard lights
- Unlock the Doors to allow door access
- Present the "Door Open" screen on the touchscreen
- Turn off HVAC

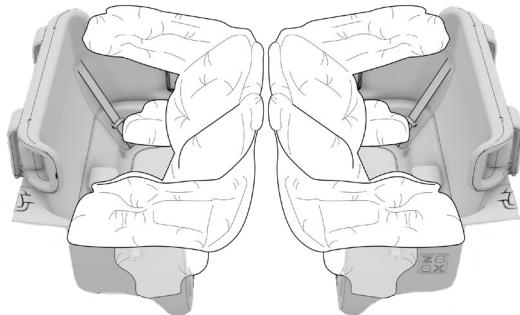
Zoox Remote Operators remotely monitor the robotaxi in real time for any indications of safety risks or events. If circumstances warrant, Zoox Remote Operators contact and work with emergency responders to resolve any incident or emergency scenario. A prerecorded message may be playing through the external audio system.

NOTE: Zoox Support Team members may arrive at the scene of the robotaxi incident to provide support for law enforcement and emergency responders. They have a Zoox badge

9. IMPORTANT ADDITIONAL INFORMATION

RESTRAINT SYSTEMS

Airbags

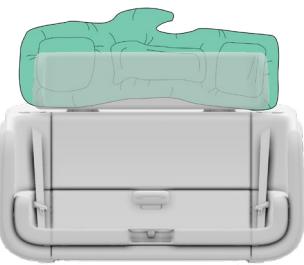


The airbags are managed by the Airbag Control Unit (ACU) and are uniquely designed to minimize injury potential in front, rear, side or rollover collisions.

Zoox robotaxis have five distinct types of airbags:

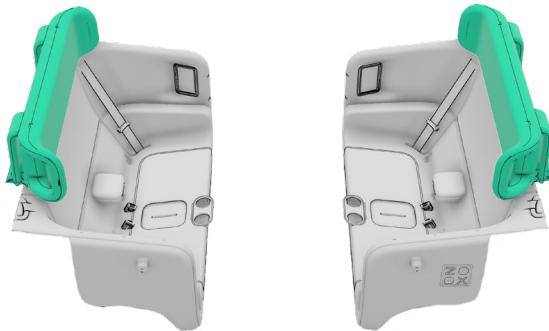
TYPE	LOCATION	FUNCTION
Horseshoe Airbags	The horseshoe airbags (1 each driving direction) are located in and deploy from the ceiling in a U-shape or "horseshoe" shaped manner.	<ul style="list-style-type: none"> Provide protection in a side crash Minimize risk of ejection in rollover crashes Provide a reaction surface for the frontal airbags in frontal crashes
Frontal Airbags	The frontal airbags (1 in front of each seating position) are located in and deploy from the center roof bow area, dropping down in front of each seat.	Provide protection for forward facing occupants in a frontal crash.

9. IMPORTANT ADDITIONAL INFORMATION

TYPE	LOCATION	FUNCTION
Rear Airbags	 <p>The rear airbags (1 each driving direction) are located in and deploy from the ceiling behind the head restraint.</p>	Provide protection from debris entering the rider cabin.
Seat Side Airbag	 <p>The seat side airbags (1 at each seating position) are located in and deploy from the passenger seat side panel.</p>	Provide protection for the pelvis of the occupant in a side crash.
Seat Pan Airbag	 <p>The seat pan airbags (1 at each seating position) are located in and deploy within the seat bottom cushion.</p>	<ul style="list-style-type: none"> • Raise the front edge of the seat, which reduces the risk of the rider's body sliding in a forward-facing collision by holding them more securely in the seats • Deploys only on forward-facing seats in high-speed frontal collisions

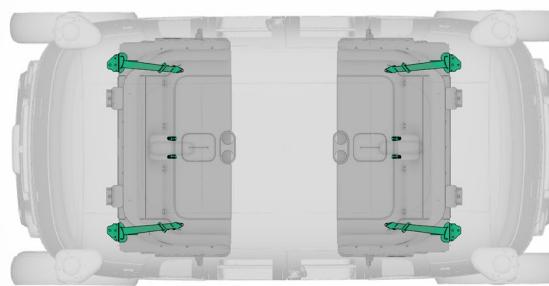
9. IMPORTANT ADDITIONAL INFORMATION

Head Restraint System



All of the 4 seating positions in the Zoox robotaxi are equipped with integrated headrests. They are not removable nor adjustable.

Seatbelts



Zoox robotaxis have a touchscreen for each seat that notifies riders to "fasten seatbelt," and do not operate until all riders have properly and securely buckled up. The robotaxis have a safety system that verifies appropriate seatbelt usage by riders with two inputs:

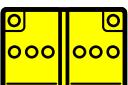
- **Sensors:** placed in the seats, used to detect a rider's presence
- **Switches:** situated in the seatbelt buckles to monitor whether the belts are fastened

If the automated driving system detects a potential or imminent collision, the seatbelt system proactively tensions the seatbelt webbing to bring occupants into the optimal position for airbag deployment and protection. This capability maximizes seatbelt safety performance for riders at all times.

Airbag Control Unit

The Airbag Control Unit (ACU) deploys individual seatbelt pretensioners. There are 4 seatbelt anchor pretensioners and 4 seatbelt retractor pretensioners, 1 at each seat.

10. EXPLANATION OF PICTOGRAMS USED

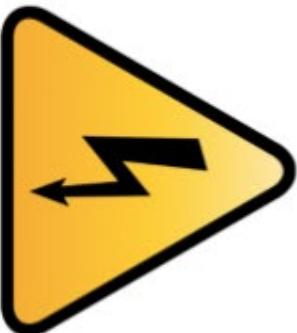
SYMBOL	EXPLANATION
	Electric Vehicle Propulsion
	Battery pack, high-voltage
	Airbag inflator/stored gas inflator
	Battery, low-voltage
	Warning, Electricity
	General warning sign
	Use thermal Infrared camera
	Break to obtain access
	Use water to extinguish the fire
	Gases under pressure
	Acute toxicity
	Flammable

10. EXPLANATION OF PICTOGRAMS USED

SYMBOL	EXPLANATION
	Explosive
	Corrosives
	Hazardous to the human health

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Electrical Hazard



Store the vehicle at least 50 feet away from other vehicles, combustible materials, and/or structures.



HV Battery

ELECTRIC VEHICLE

