MOIA

First Responder Interaction Plan

Austin, TX

MOIA America, LLC

Table of Contents

1.0 Background

2.0 Emergency Communication

3.0 Vehicle Information
- Vehicle Identification
- Location of Vehicle Documents
- Contact Information

4.0 Vehicle Interaction
- Automated Driving System Engagement
- Disengagement and Powering Down
- Immobilization
- Safely Removing Vehicle from the Roadway
- Towing the Vehicle

5.0 Safety Considerations
- Passengers
- Extrication
- Disconnecting Batteries
- Accessing the Trunk
- Safety Reference Material
- Emergency Fire Fighting
- Submerged Vehicle

This document is intended to provide guidance to first responders when interacting with the autonomous ID. Buzz vehicles during emergency and traffic enforcement situations. This document will be updated as needed, in collaboration with first responders and other appropriate stakeholders.

Emergency Communication

(512) 705-2944

The autonomous ID. Buzz vehicles are currently being operated with safety drivers in the vehicle who are trained to properly address emergency situations. For any emergency situation which cannot be safely addressed by the safety driver, first responders may contact a fleet support specialist who is available anytime the vehicles are in operation.

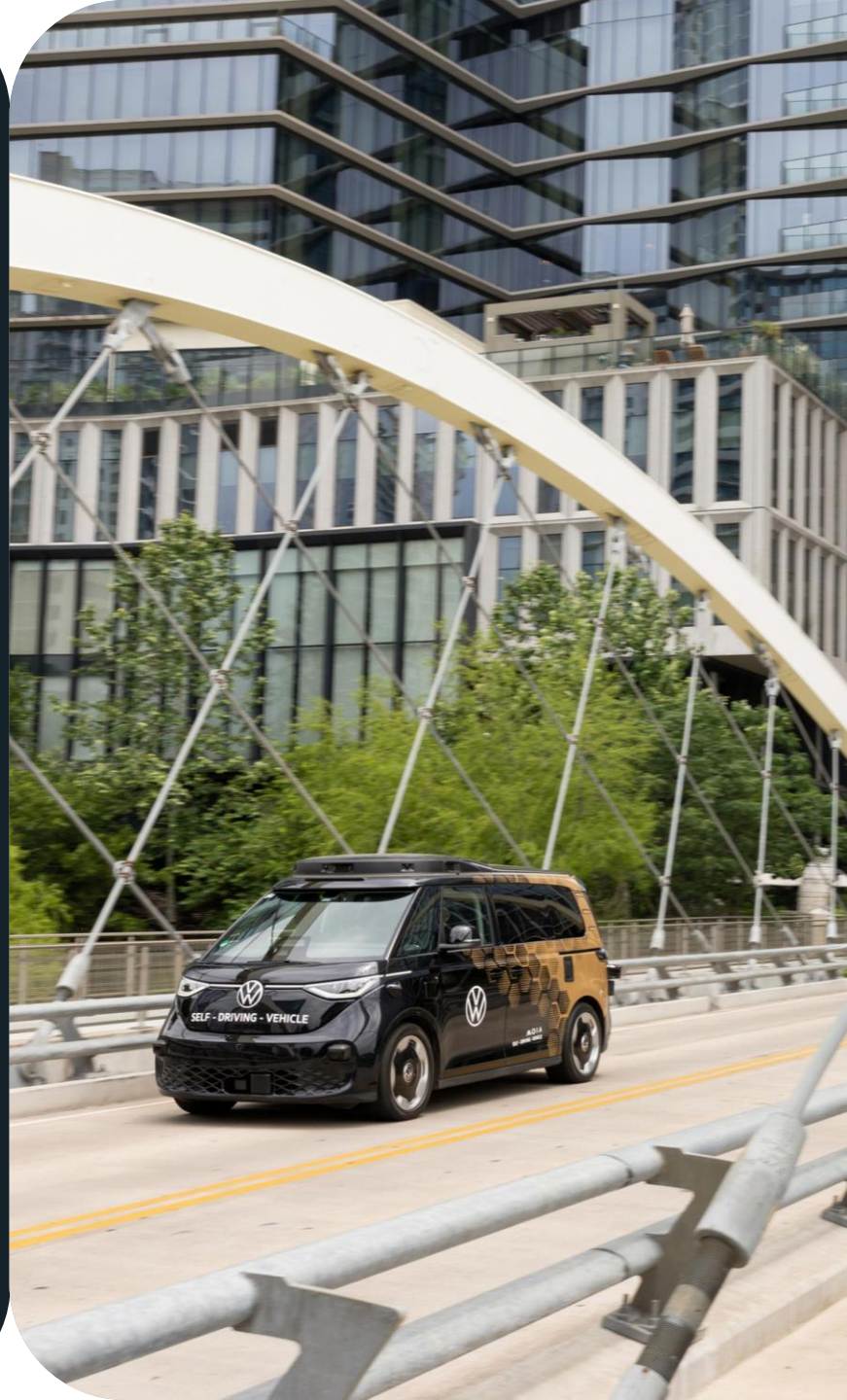
MOIA

Vehicle Identification

Vehicle Platform
The vehicle platform currently used in testing is the VW ID. Buzz

Logo and Markings
A VW autonomous vehicle can be identified by any of the following characteristics:

- VW logo
- The phrase, “Self-Driving-Vehicle”
- Unique vehicle wrap
- Specialized sensors and cameras affixed to vehicle (bumpers, rooftop, etc.)



Location of Required Documentation

In the event of a crash, traffic violation, or other emergency incident, specified information can be found in the glove-box of each vehicle including:

1. Vehicle Owner Information
2. Vehicle Registration
3. Proof of insurance
4. First Responder Reference Sheet
5. Vehicle Schematics

Contact Information

Please contact the following designee for any non-emergency concerns, or enforcement actions arising from the operation of an autonomous ID Buzz vehicle:

Todd Hunt
Development Hub Operations Manager
Austin, TX
Todd.Hunt@vw.com
(512) 632-7416

Vehicle Interaction

The following section is an overview of how to safely interact with the vehicle and remove it from the roadway in an emergency situation:

1.
Secure the VW Autonomous Vehicle by disengaging autonomous mode and turn the vehicle off

2.
Locate first responder information in the glove box

3.
Contact a MOIA fleet support specialist: (512) 705-2944
MOIA representatives will provide additional support.

Automated Driving System Engagement

All vehicles are currently operated with safety drivers who are trained to disengage the automated driving system and take manual control of the vehicle during an emergency situation.

Engine Start-Stop Button
(ON shown)

Disengagement and Powering Down

To turn off the ignition (and disengage the vehicle from autonomous mode), simply depress the Engine Start-Stop button.

- Check that the Engine Start-Stop light is OFF
- If the Engine Start-Stop light is ON, press the Start button to turn OFF the ignition

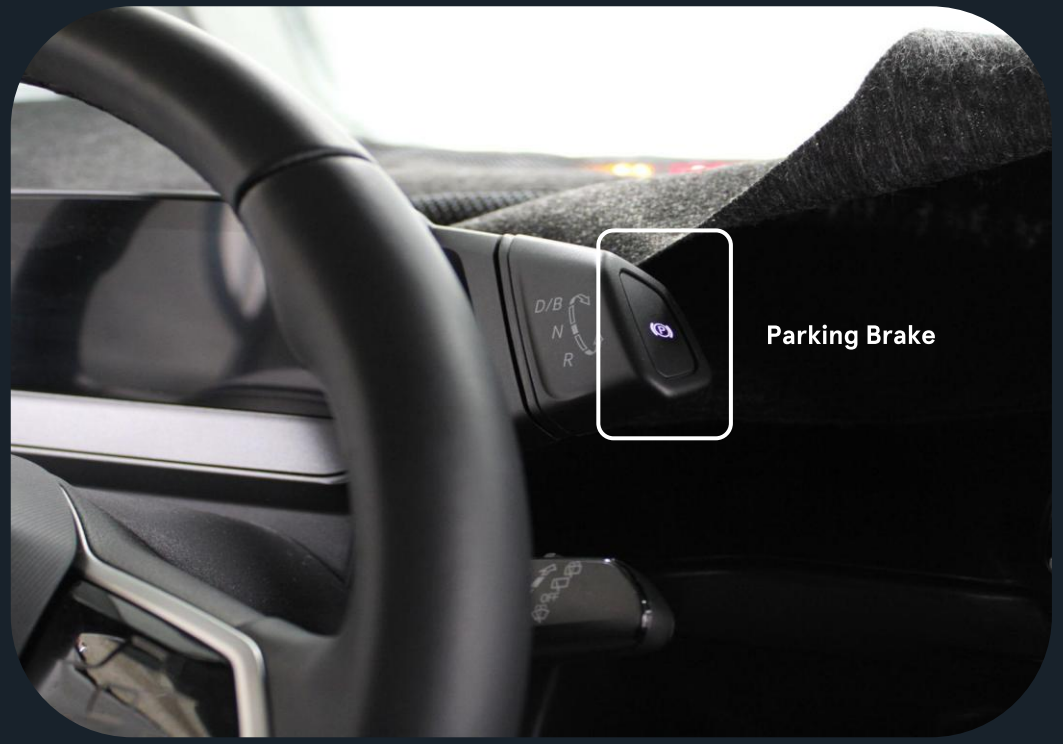
Note: Engine automatically turns off if person seated in driver seat gets up without their seatbelt buckled

Disengagement and Immobilization

Electronic Shift Control and Parking Brake
To determine if the vehicle is in the Park position and the parking brake is applied, check for:

- Illuminated “P” (Park) indicator on the Electronic Shift Control
- Red light on the dashboard indicating an active parking brake

Note: Vehicle not equipped with transmission parking lock



Safely Removing Vehicle From the Roadway

- The autonomous ID. Buzz vehicle is equipped with a variety of sensitive equipment. In the event of a crash or other disabling emergency, the vehicle should not be left unattended. In all situations, the fleet support specialist should be contacted for assistance.
  - If a VW vehicle needs to be removed from the road, it should be disengaged from autonomous mode and manually moved to a safe location.
  - If the vehicle must be towed, MOIA America contracts with specific towing companies. The fleet support specialist can arrange for towing if necessary. Only a flat bed tow truck should be used (reciprocal towing using a cable or tow bar may signifcantly damage the vehicle). Towing information is also contained in the glove box.

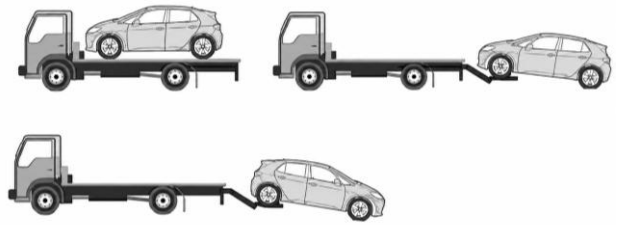
Towing and Storage Considerations

Given the sensitive nature of the vehicle, if towing and removal becomes necessary, please maintain and store the autonomous ID. Buzz vehicle in a secure manner. To the extent possible, please restrict access to the vehicle and document who has control over it. VW prefers to maintain possession of test vehicles at all times. We will work with the appropriate first responders and law enforcement personnel to provide post-incident access as needed.

Lithium-ion batteries can self-ignite, or re-ignite after a fire has been extinguished.

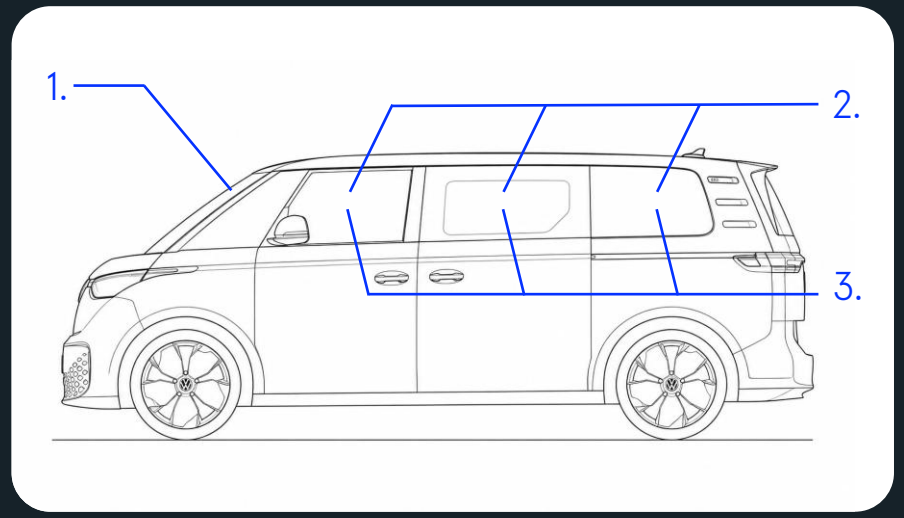
If the vehicle has been involved in an accident or if the HV battery is damaged or suspicious: Deactivate the high-voltage system. Park the vehicle at a safe distance, at least 5 m, from buildings and other vehicles (quarantine area).

Do not tow a vehicle that has been involved in an accident on its drive axles.



Passengers

- The autonomous ID. Buzz vehicle may be operated with or without passengers.
- If first responders cannot determine the presence of passengers with a visual inspection, they should contact the fleet support specialist for assistance.



Glass types:

1. Laminated safety glass
2. Toughened safety glass
3. Optionally composite safety glass

In the event of a crash with airbag deployment, electrically operated doors are automatically unlocked.

Extrication

If passenger extrication is required, please consult with the fleet support specialist and/or refer to the first responder information contained in the vehicle.

The belt tensioners can be damaged when cutting through the B-pillar!

Flammable | Explosive | Corrosive | Hazards to the Human Health | Environmental Hazard | Electric Vehicle | High Voltage Warning | Caution, Danger

Dangerous Voltage | Remove Smart Key | Use Thermal Infrared Camera | Release the Bonnet | Release the Boot | Use Water to Extinguish the Fire

Disconnecting 12-Volt Batteries

The vehicle has two low-voltage batteries

To disconnect the 12v battery underneath the driver's seat:

1. Turn the orange switch on the left side of the driver's seat
2. Disconnect the ground connection (-)

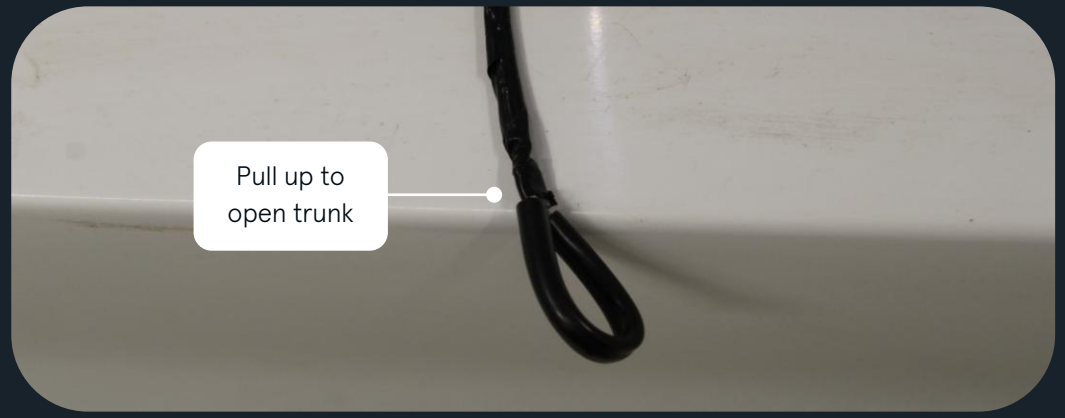
To disconnect the 12v battery in the luggage compartment (rear of vehicle)

1. Turn the black wheel on top of the battery 2 to 3 full turns to the left
2. Disconnect the ground connection (-)

Accessing the Rear Trunk

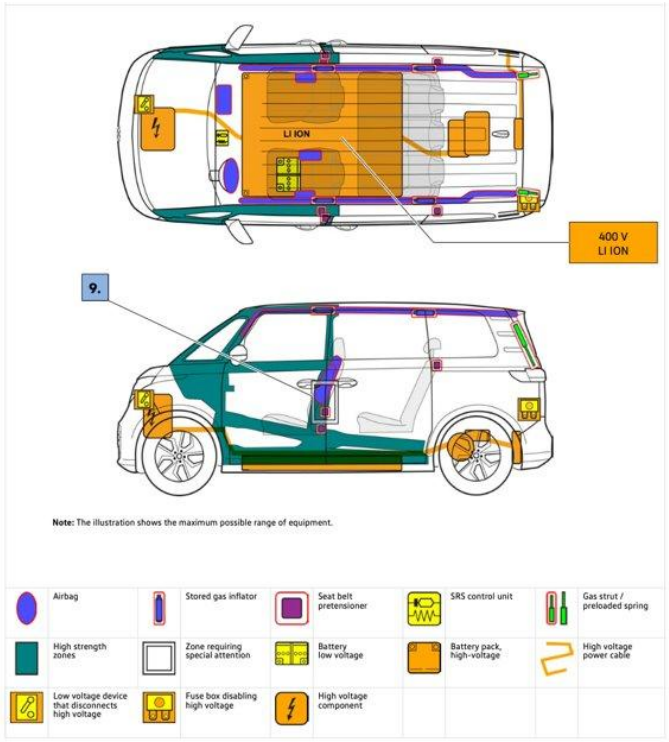
- Ensure the vehicle is not in Autonomous Mode
- Pull handle on rear tailgate
- If electricity to the vehicle is switched off, pull the loop mounted at the trunk and then pull the tailgate handle

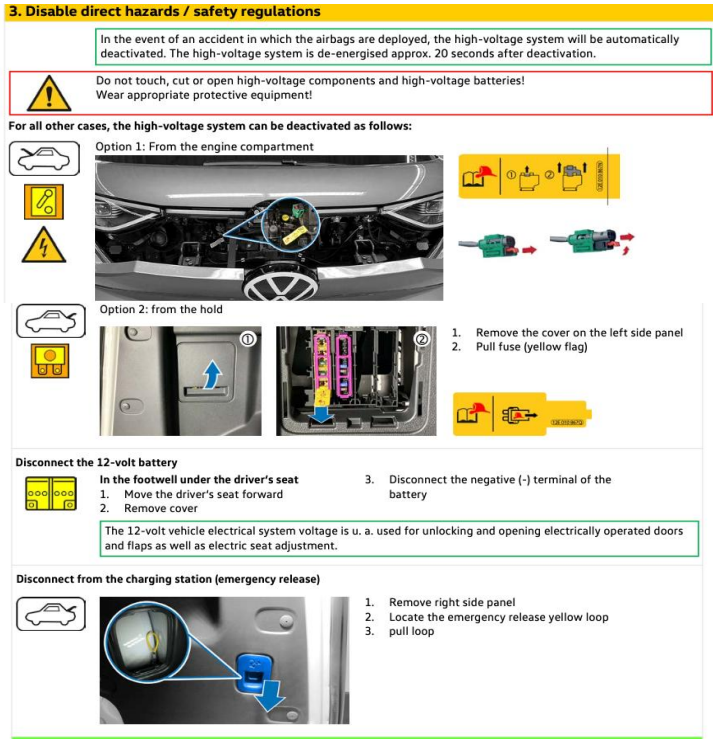
  *pull cord colors may vary

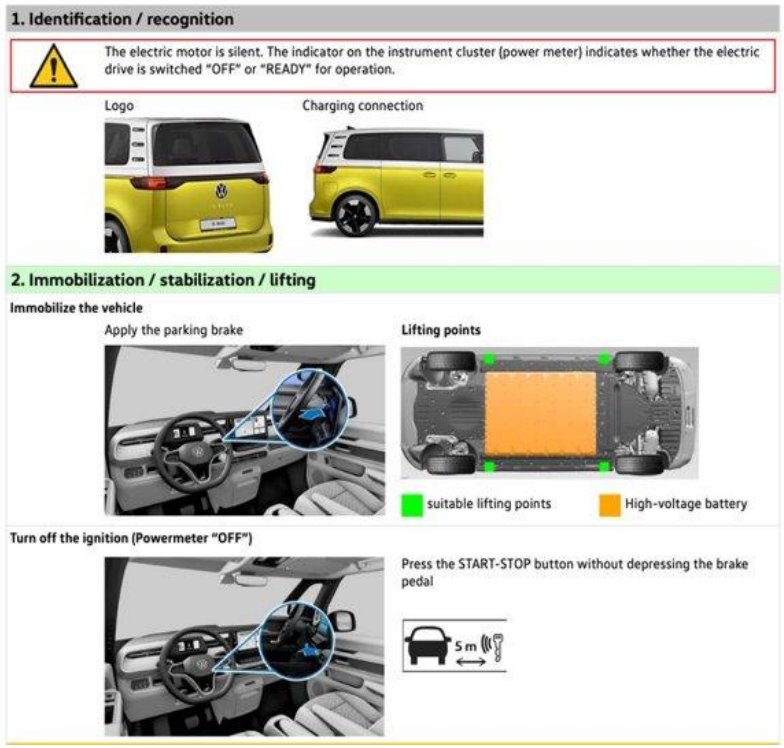


Safety Reference Material

Vehicle Schematics, including information on the location of high-voltage components and other safety considerations, are located in the glove box.







Emergency Fire Fighting Efforts

Flammable

Corrosive

Hazards to the Human Health

Environmental Hazard

If a VW vehicle is on fire or suspected to be on fire, utilize appropriate personal protective equipment and adhere to appropriate emergency training techniques and tactics.

If the internal components of the battery systems are exposed to water they may generate combustible gas, which may ignite a fire at any time after the initial incident and may also cause severe health consequences on contact.

Lithium-ion batteries can become damaged or improper. Use promptly or with a delay to ignite or after the Ignite fire fighting again! Wear appropriate protective equipment!

Submerged Vehicle

If the internal components of the battery systems are exposed to water, varying degrees of arcing or shorting within the battery may occur. Direct contact with the by-products of the reaction can cause severe burns or electric shock even without air exposure. Unless it is absolutely necessary, DO NOT attempt to move or access a VW vehicle until the high-voltage battery is discharged.

A submerged high-voltage battery may produce a fizzing or bubbling reaction in the water. If fizzing or bubbling is observed, the battery is in the process of discharging and remains hazardous.

After rescuing the vehicle from the water, deactivate the high-voltage system and allow the water to drain.