

EV CITIRIDER

Operators Guide



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WELCOME TO BCI

EV Citirider Low Floor – Operator's Guide

Congratulations on selecting a BCI vehicle.

Becoming familiar with your vehicle will make it easier to operate and help you enjoy the full benefits.

We strongly recommend that you:

- Read and understand this Operator's Guide, as it contains important information on the safe operation and optimum performance of your BCI EV Citirider.
- Contact your authorised BCI Dealer if you have any questions or are unsure about any aspect of operating the vehicle.

BCI is not responsible for any loss or damage resulting from improper use of the product.

Every effort has been made to ensure the information in this guide was accurate at the time of printing.

We wish you safe and pleasant journeys.

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Note: The content of this operator's guide is to provide as much relevant information to the operators as possible. It may contain information on factory optional equipment, which may or may not be included in your vehicle

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1.0 Using this guide

This guide is designed to help vehicle operators understand the **BCI EV Citirider** product. Operators must strictly adhere to all local laws and regulations regarding the vehicle's operation.

This document contains essential safety messages intended to prevent potential personal injuries. It is crucial to follow all the safety messages provided here to avoid injuries or fatalities. Pay particular attention to the following symbols and layouts.



Warning

Indicates an imminent dangerous situation which, if not avoided, could result in death or serious injury.



Warning

High Voltage -Indicates the presence of high-voltage components, leads, or connections. Do not touch anything labelled as high-voltage or any **ORANGE** cabling.



Hazard

Additional information which is important but not threatening to life and/or systems.

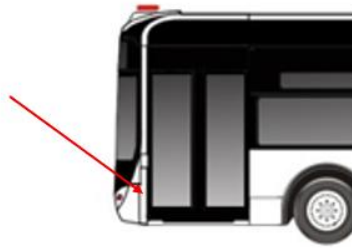


Information

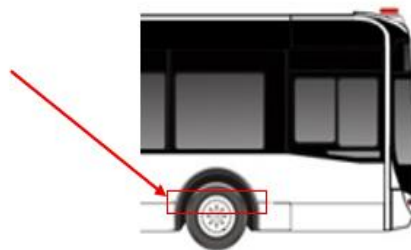
Additional information which is important but not threatening to life and/or systems.

2.0 Vehicle information

The vehicle's identification plates, including compliance, regulatory, and statutory plates, are inside the front step well of the front passenger door.



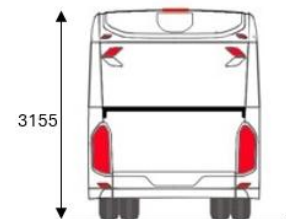
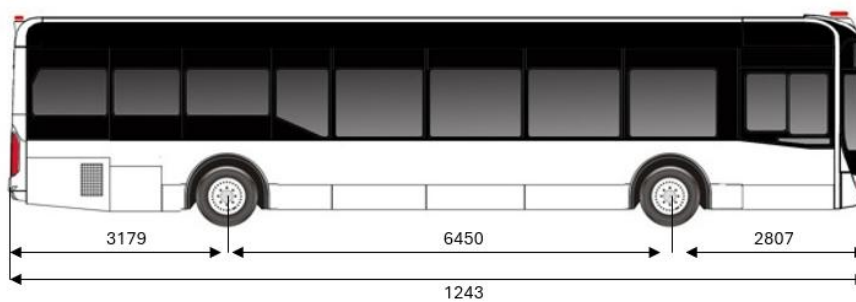
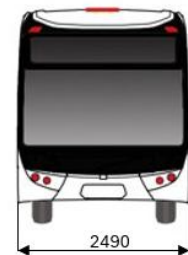
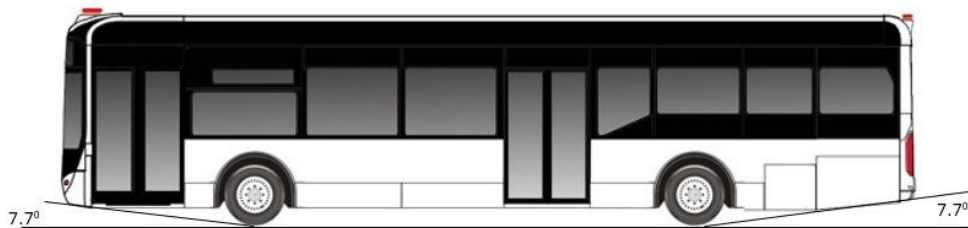
The vehicle's identification number (VIN) is also stamped into the OS (right side) chassis structure behind the front wheel.



3.0 Technical specifications

FBC6120BRS8- EV Citirider	
Overall length.	12,436 mm
Overall width.	2,490 mm
Overall height.	3,155 mm
Wheelbase.	6450mm
Front approach angle.	7.7° laden
Rear departure angle.	7.7° laden
Turning circle.	Maximum 25.16m, wall to wall (21.8 Kerb to kerb)
Gross vehicle mass. (GVM)	18,000 kg
Maximum road speed.	100 km/h
Batteries.	CATL type BC5, LFP 419 kWh capacity (804 Ah)
Drive.	Voith VEDS HD

Peak torque.	3100 Nm
Front axle.	Hande IFS with stabilising bar. HDZ75P040048006
Rear axle.	Hande HDZ13P631608461
Suspension.	ECAS electronic suspension, 2 front and 4 rear air bags
Front doors.	Ventura inward gliding doors (2 leaf).
Rear door.	Ventura plug sliding door.
Air conditioning.	Coachair EX32
Rims.	Aluminium 8.25 x 22.5
Tyres	Michelin X coach Energy Z (295/80R22.5)



4.0 Operator's area

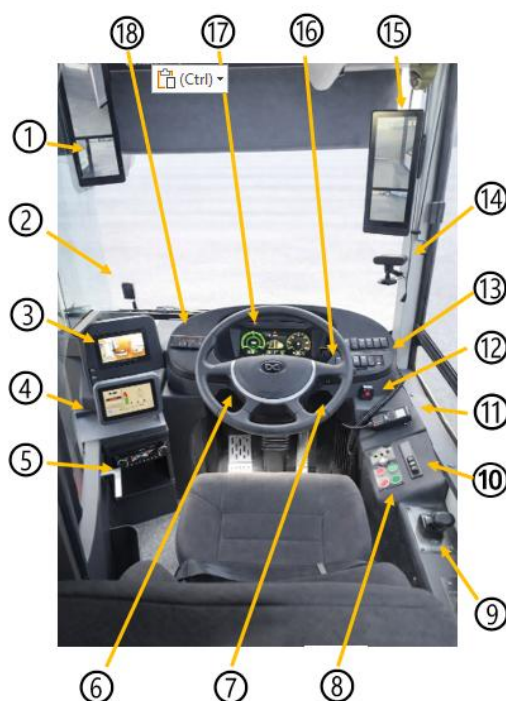


HAZARD

- Keep the operator area clean and free from obstruction.
- Adjust the seating position and mirrors before operating the vehicle.
- Report any defects, damage, or abnormal operation immediately, in accordance with company procedures.

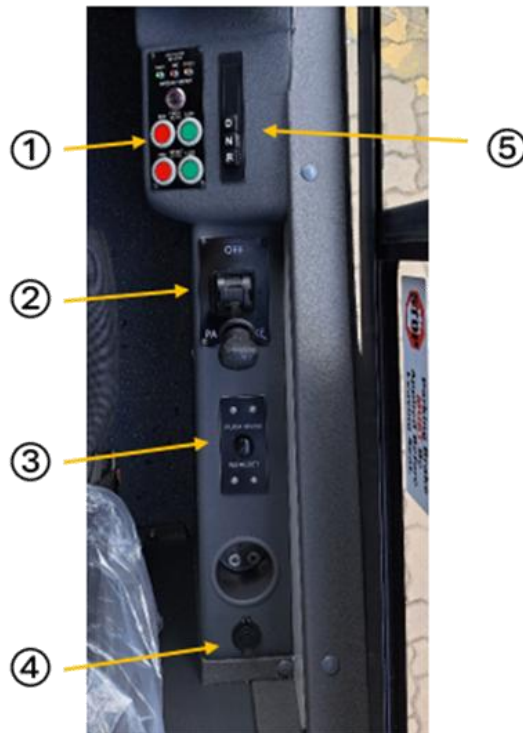
The operator area is the driver's dedicated working space and is designed to provide safe, comfortable, and efficient control of the bus during operation.

This area includes the driver's seat, steering wheel, instrument panel, switches and controls, mirrors, driver display screens, and key safety systems. All controls are positioned within easy reach to minimise distraction and allow the driver to maintain full attention on the road and passenger environment.



1	Left hand mirror monitor (section 10.3)	10	Direction selector (section 4.8)
2	LDWS (land departure warning system (Section 10.4)	11	2-Way radio (section 4.4)
3	Vehicle 360 monitor (section 10.5)	12	CCTV event button (section 4.3)
4	Consat drivers screen	13	Right hand switch panel (section 4.2)
5	AM/FM radio (section 4.5)	14	Driver's fatigue monitor (section 10.4)
6	Indicator stalk (section 4.9)	15	Right hand mirror monitor (section 10.3)
7	Wiper control (section 4.10)	16	R-watch (section 14.10)
8	Door control panel (section 8.0)	17	Instrument cluster (section 5.0)
9	Park brake control (section 4.6)	18	Windscreen demister control panel (section 6.0)

4.1 Right hand Driver's side console



1	Door Controls (section 8.0)	4	USB Charge Point
2	Park Brake (section 4.6)	5	Direction Selector (section 4.8)
3	BROMS Brake (section 4.7)		

4.2 Right hand switches and controls

HAZARD	
- Do not operate switches or controls while distracted. - Never attempt to modify or override any control system. - Report any faulty, damaged, or unclear switches immediately. - Always follow company operating procedures and local legislation.	

The driver's area is equipped with a range of switches and controls designed to safely operate the vehicle and its onboard systems. All switches and controls are positioned within easy reach of the driver and are clearly labelled for identification.

Switch	Description	Activation	
	Next Stop Request	Momentary switch	Pressing will reset the passengers next stop request system.
	Saloon Lights	3 position switch	1 = Off 2 = light low 3 = lights high
	Driver's Seat Light	2 position switch	1 = Off 2 = lights on
	Mirror day / night switch	Momentary switch	Pressing will alternate between standard and brighter intensity levels on mirror monitors
	Booster Fan (Vents above driver)	3 position switch	1 = Off 2 = low speed 3 = high speed
LED	Roof Beacon Lights	2 position switch	1 = Off 2 = lights on
	Vehicle Suspension raise	Rocker switch	1 = Suspension raised 2 = Suspension normal ride height 3 = Suspension lowered
	Vehicle Suspension lower	2 position switch	1 = Suspension normal ride height 2 = Suspension kneeling position
	Return to normal ride height	Momentary switch	Pressing will return the suspension to normal ride height
	Driver's blind	Rocker Switch	1 = Blind up 2 = Off 3 = Blind lower
	Rheostat	Rheostat used to control light density on switches only	
	Interlock active warning light	If the parking brake is not applied when the operator leaves the seat, the warning light will illuminate, and an audible alarm will sound to warn of potential vehicle runaway.	
	Door Alarm warning light	If a door entrapment or door fault is detected this warning light will illuminate , and an audible alarm will sound.	

4.3 CCTV time stamp



Information

Refer to company policies and procedures for operational requirements.

Refer to the CCTV supplier for more detailed information of the operating of the CCTV system.

Pressing the time stamp button activates a date and time marker in the CCTV recording, allowing specific footage to be accurately identified and reviewed at a later time.

4.4 Two way radio (Motorola)



Information

Refer to company policies and procedures for operational requirements.

Refer to Motorola for more detailed information on operating the 2 way-radio

4.5 AM/FM Radio

The vehicle is equipped with an Audiobus (S2454BTA) dual-zone DVD/CD/Bluetooth system with FM/AM tuner. Operating instructions are available from authorised Audiobus or BCI dealers.

4.6 Park Brake



Warning

Do **NOT** release the park brake unless the vehicle is secure and safe to move.

Before releasing the park brake, ensure:

- Operator is seated with seat belt fastened.
- Foot is on the brake pedal.
- Air pressure is within the normal operating range.
- Direction of travel is selected.
- The area around the vehicle is clear of people and obstacles.

Failure to follow these precautions may result in **uncontrolled vehicle movement**, causing **serious injury, death, or property damage**.

Before releasing the park brake, ensure the following:

- The operator is seated correctly with the seat belt fastened.
- The vehicle has full air pressure and there are no active faults or warning lights.
- Firm pressure is applied to the foot brake.
- The correct direction of travel is selected.

To release the park brake, apply slight rearward pressure to lift the collar on the lever, then slowly support and guide the lever forward to the OFF position.



Information

Allowing the lever to spring to the off position under its own momentum will cause premature failure of the Park Brake valve.

To apply Park Brake:

- Pull the lever rearward allowing the collar to lock into position.
- Red Park Brake warning light will be illuminated (section 5.1)

4.7 BROMS brake



Warning

Always ensure the Park Brake is applied before resetting the **BROMS** brake control.

In the event of a loss of air pressure in a brake circuit, the **BROMS** system will automatically activate and apply the park brake.

This condition will be clearly indicated by the **BROMS** button protruding from its normal seated position,

indicating that the park brake has been applied for safety.

Once the condition that triggered the activation has been rectified by qualified personnel, ensure the following before resetting the system:

- The Operator is seated with the seat belt fastened.
- The vehicle has full operating air pressure.
- The park brake is applied.
- There are no active faults or warning lights.

When these conditions are confirmed, push the **BROMS** button down. Normal air pressure will then be reinstated to the brake system.



4.8 Direction selector



Warning

Before selecting direction of travel, ensure:

- Operator is seated with seat belt fastened.
- Foot is on the brake pedal.
- Air pressure is within the normal operating range.

Failure to follow these precautions may result in **uncontrolled vehicle movement**, causing **serious injury, death, or property damage**.

Place foot on the brake pedal and select desired direction :

- **D** = Forward
- **N** = Neutral
- **R** = Reverse

Selecting reverse will activate rearward looking image within the camera monitor (section 5.3)



4.9 Headlight and direction combination stalk



OFF	All lights are off. Align white triangle with OFF
	Park light / clearance lights. Rotate handle clockwise one click to align white triangle with icon. Icon on dash will illuminate (section 5.1).
	Low beam lights. Rotate handle clockwise two click to align white triangle with icon. Icon on dash will illuminate (section 5.1). High beam. Push the stalk away to switch the high beam on continuously. Pull the stalk towards you for a momentary flash.
	Move the stalk upwards to indicate right. Move the stalk downwards to indicate left.
	Hazard lights. Push red button on the end of the stalk to turn hazard lights on and off.

4.10 Wiper and retarder stalk



OFF	All wipers are off. Align white triangle with OFF
INT LO HI	Wipers. INT = One click clockwise is intermittent wiping. LO = Two clicks clockwise is slow speed wiping. HI = Three clicks clockwise is high speed wiping.
	Washer Button. Push the button on the end of the stalk to active water spray. The wipers will be active on LO speed and automatically turn off, few seconds after releasing the button.
	Not used on Electric Vehicles.

5.0 Instrument cluster



Warning

Operators must **never ignore warning lights, fault codes, or alert messages** displayed on the vehicle instrument cluster. Report any issue without delay in accordance with company procedures.

The **Citirider** is fitted with a **fully digital instrument cluster** designed to provide clear, high-contrast visibility in all lighting conditions, including direct sunlight and night operation.

The centrepiece of the instrument cluster is a **vehicle status graphic**, which provides the driver with an at-a-glance representation of the bus and key operating information. Surrounding this central display are dedicated, circular gauges that present critical data in a clear and intuitive format.



1	Upper Warning lights (section 5.1)	4	Enter button and trip meter reset
2	SOG (state of Charge) , Consumption Gauge	5	Speedometer
3	Vehicle status graphic		

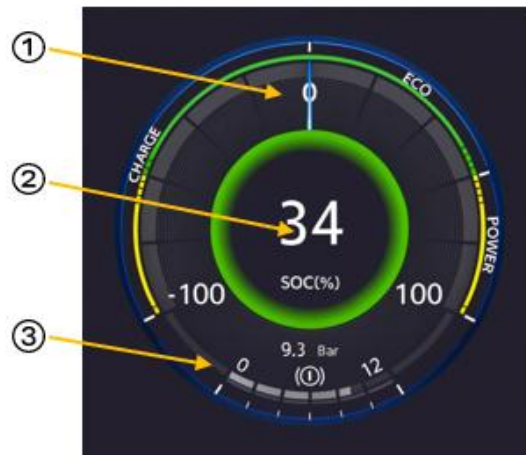
5.1 Upper warning lights (1)

In the upper portion of the instrument cluster the following warning and indicator lights could be displayed.

	Tele-tale for left-hand indicator.		Tele-tale for right-hand indicator.
	Illuminates when park brake is applied.		If illuminated, a major fault is present. The vehicle must be stopped and the fault reported as soon as it is safe to do so.
	Illuminates when clearance/head lights are active.		If illuminated indicators a fault in a brake air circuit. The vehicle must be stopped and the fault reported as soon as it is safe to do so.
	Illuminates when high beam lights are active.		Illuminates if a fault is detected with ABS system.

5.2 SoC (State of Charge) (2)

The SoC gauge is divided into three sections. The centre of the gauge displays the available battery charge as a percentage (2). The outer ring functions as an economy gauge, providing a real-time indication of how efficiently the vehicle is being driven (1). The lower section of the gauge displays the brake air pressure for circuit 1 (3)

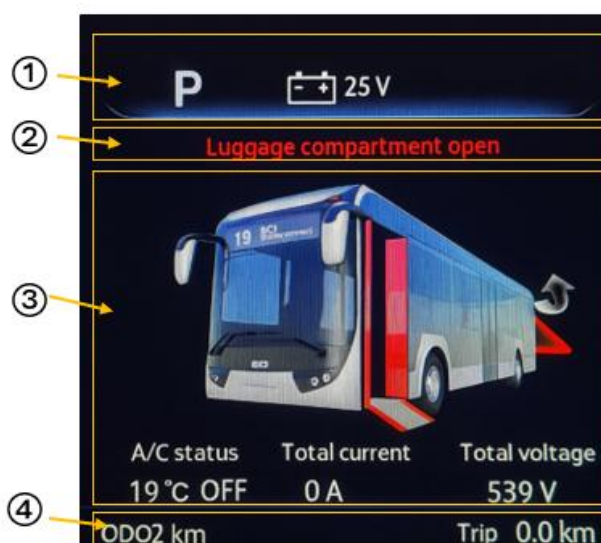


The economy part of gauge (1) displays the relationship between **power usage and regenerative braking**:

- Movement toward the **POWER** range indicates increased energy consumption due to acceleration or high load.
- Movement toward the **ECO** range indicates efficient driving conditions, where energy use is minimised.
- When regenerative braking is active, the gauge reflects energy being returned to the battery as **CHARGE**.

5.3 Vehicle status display (3)

This screen provides a visual overview of the vehicle's current operating status using a digital representation of the bus. It displays key alerts and conditions, such as an open luggage compartment, along with basic system information including gear selection, low-voltage battery status, air-conditioning status, total traction voltage and current, and odometer/trip readings. The graphic allows the driver to quickly identify vehicle status and any active warnings at a glance while driving or stationary



1 Upper Warning Lights and symbols.			
The following warning indicators or symbols may appear in this area. Some of these symbols are accompanied by a written message displayed in Section 2			
P	Direction indicator . P = Park Brake applied / N = Neutral R = Reverse / D = Drive (refer section 4.7)		Battery symbol with digital readout of 24-volt battery capacity.
	Driver's seat belt is not fastened		Brake pad wear indicator warning
	Passenger Next Stop request light		Service brake applied
	Wheelchair ramp required at Next Stop request		Hold Brake is active
	Low Coolant warning		Wheelchair ramp required for alighting at Next Stop
	The vehicle is ready to drive		Emergency hammer warning
	Limp mode		Low washer fluid
	EBS fault - Major		EBS fault - Minor
	ECAS fault – Minor		ASR fault
	Vehicle in kneeling position		ECAS fault – Major
	Power train fault – major		Power train fault – minor
	Motor / system shutdown mode		Start mode
	Door Alarm		Vehicle charging
	Traction battery fault		Battery thermal fault
	Battery temperature warning – major		Battery temperature warning – minor
	Driver's seat vacant without park brake applied		Insulation fault

2 Key Alert Messages	
This area displays key alert messages that require the operators' attention. These messages are generally accompanied by other alerts or warning indicators, providing additional information to help the operator quickly understand the condition and take appropriate action.	
3 Vehicle Status Area	
The graphic representation of the vehicle in this section provides the operator with a quick reference to the current vehicle status. It identifies any doors, hatches, or areas that are open or may require attention. When scrolling through the menu (Section 4), this area will also change to display active and passive faults codes.	

4	Reset / Menu buttons
	Located on the lower section of the dashboard, to the left of the centre line, this button resets the trip meter when pressed.
	Located on the lower section of the dashboard, to the right of the centre line, this button allows operators and maintenance staff to scroll through the different screens within the Vehicle Status Area (Section 2) when pressed

5.4 Speedometer

This speedometer is a digital display showing the vehicle's current speed in kilometres per hour (km/h) at the centre (1). The outer ring provides a graduated speed scale from 0 to 120 km/h (2) with clearly marked intervals.

The lower section of the gauge displays the brake air pressure for circuit 2 (3)



6.0 Windscreen demister control panel

This Citirider is equipped with a Coachair EX32 climate control system that is pre-set. The operating parameters are fixed and cannot be adjusted by the operator.

Information

Any changes to system settings can only be carried out by authorised maintenance personnel



The operator has access to the following controls, located on the left side of the dashboard, which allow adjustment of selected functions within the operator's compartment only.

	AC On / Off control		Operator's vent direction
	Recirculating or fresh air		Operator's heat On/Off
	Operator's fan speed-up		Operator's fan speed-down

7.0 Operator's seat.



Warning

Never attempt to move or adjust the driver's seat whilst the vehicle is in motion.



Hazard

Never leave the driver's seat without first applying the park brake. The seat belt is fitted with warning alarm and light.

This vehicle is fitted with an **ISRI 6860/875 NTS** air-suspended driver's seat, featuring advanced ergonomic design

and integrated suspension. It provides full operator support with built-in lumbar and lateral side-support functions.

The driver's seat is fully adjustable to suit different operators and must be correctly set **before driving**.

Adjustments typically include:

- Seat height
- Fore and aft position
- Seat cushion and backrest angle
- Lumbar support

Correct seating position is essential to ensure:

- Clear visibility of the road, mirrors, and dashboard
- Comfortable reach to all pedals and controls
- Reduced fatigue during extended operation



8.0 Door control panel



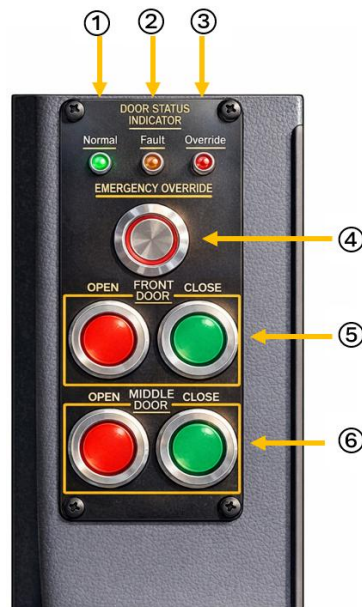
Warning

Only use the emergency override to release the door brake in an emergency.
Priority is to ensure the safety of passengers and yourself.



Information

The brake pedal must be pressed, or the park brake applied, for the doors to operate.



1	Normal LED	System is operating correctly without fault; this light will illuminate green.
2	Fault LED	System detects a faults or errors; light will illuminate red.
3	Override LED	If any of the WSB within the door compartments are active this light will illuminate amber.
4	Override button	Emergency override used to release brake and accelerator lock in an emergency. Must be depressed and held to allow vehicle to moved.
5	Front door buttons	Red button to open doors and green to close.
6	Rear door buttons	Red button to open doors and green to close.

8.1 Door operation.

The Citirider is equipped with a Ventura door system. The front doors are twin leaf inward gliding doors and rear double plug doors.

These doors are controlled by the operator using the door control panel buttons (section 8.0). Red buttons are used to open the doors and green to close them.

Both doors are equipped with the following internal and external buttons.

Front door buttons (external)



Door Closed button / Lift clear plastic cover and press button to close doors. Vehicle needs to have power active and anti-rollaway condition met.



Emergency Door open / Lift clear plastic cover and press button to release door pressure. Manually slide open the doors open by hand.



Ramp request button / Press the centre of the button, and it will notify the operator that the ramp is required via warning light. (section 5.3 item 2)

Front door button (internal)



Emergency Door open / Lift clear plastic cover and press button to release door pressure. Manually slide open the doors by hand.

Rear door buttons (external)



Emergency Door open / Lift clear plastic cover and press button to release door pressure. Manually pull the doors open by hand.

Rear door buttons (internal)



Emergency Door open / Lift clear plastic cover and press button to release door pressure. Manually push the doors open by hand.



Door Closed button / Lift clear plastic cover and press button to close doors . (vehicle needs to have power active and anti-rollaway condition met)

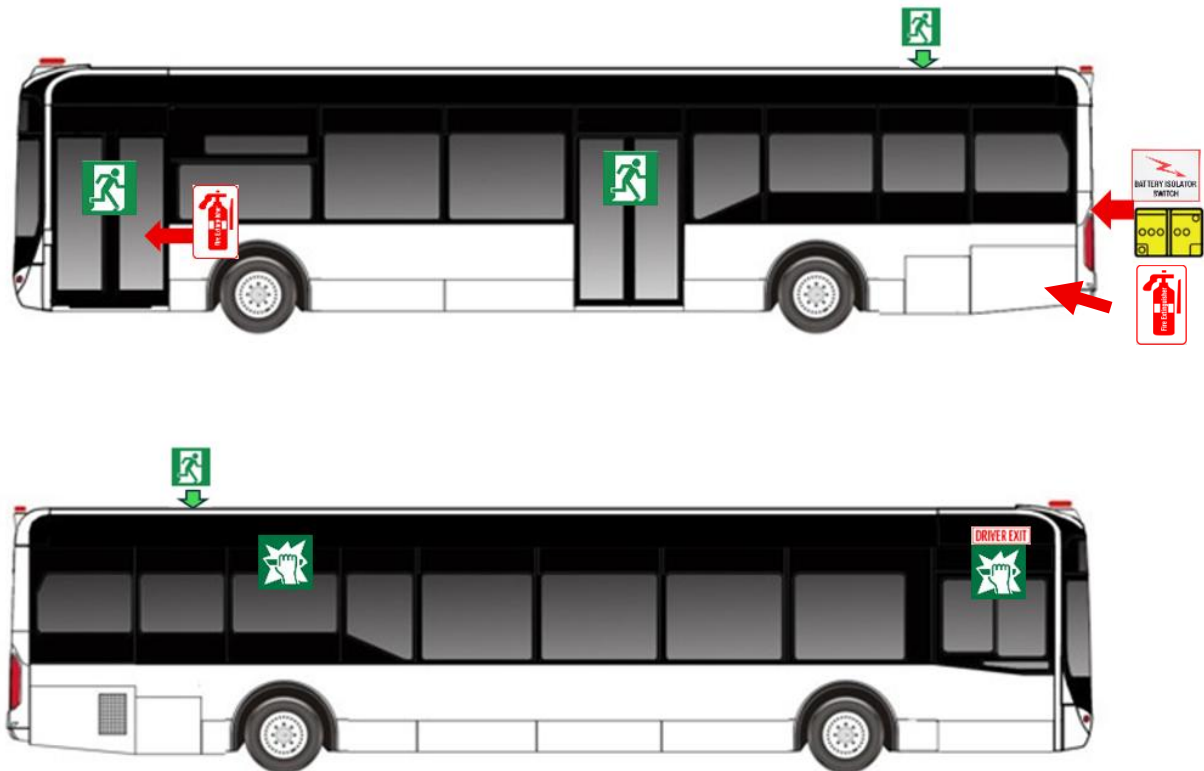
9.0 Emergency exits, isolations and fire extinguishers



Warning

In the event of an emergency, bring the vehicle to a stop as soon as it is safe to do so and apply the park brake. Open the doors and safely evacuate all passengers, ensuring they move to a safe location away from the vehicle and traffic.

Once evacuation is complete, switch OFF ignition and remove key, Isolate battery master switch, If conditions permit. Remain at a safe distance and follow company emergency procedures or instructions from emergency services.



	3 Emergency exits: • Front service doors. • Middle service doors. • Rear roof hatch. (section 9.1)
	2 Emergency break glass exits: • One break glass exit is located on OS (right side), above rear axle. • The second exit is at the operator's window. • Internally both windows have hammers located within close proximity.
	The vehicle is equipped with two portable fire extinguishers: • 1) located internally behind the driver's seat. • 2) Located externally in the last compartment on NS (left side).
	24V Battery isolation switch is located in rear motor compartment.
	24-volt batteries are located in the rear motor compartment.

9.1 Emergency exit / roof hatch

The Citirider is fitted with a roof mounted emergency exit, to utilised follow these instructions.



Warning

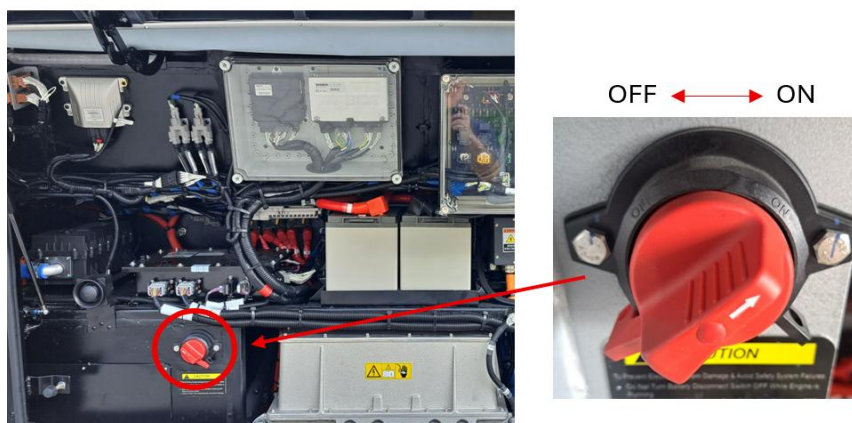
Ensure the emergency exit is unobstructed and free from any hazards before utilising.



1. Remove and discard the clear plastic cover.
2. Move the red lever in the direction indicated by the arrows.
3. Push the hatch open and exit the vehicle when it is safe to do so.

9.2 Battery isolation

The 24-Volt battery isolation switch is located in the rear motor compartment.



Hazard

To prevent electrical system damage and avoid safety system faults:

- Always switch the ignition **OFF** before operating the battery isolation switch.
- After switching the ignition OFF, wait **at least 3 minutes** before turning the battery isolation switch **OFF**.

9.3 Fire suppression



Warning

PRIORITY OF SAFETY

In the event of a fire, smoke, or fire suppression system activation, the operator's first and highest priority is the immediate and safe evacuation of all passengers and themselves.



Information

For detailed operating, safety and product information, refer to the **Musterfire Operator's Manual**. (EV Bus Fire Suppression System February 2026)

The vehicle is fitted with a third-party **Musterfire** automatic fire suppression system. The system continuously monitors for heat and, upon detection of a fire, automatically discharges a fire-suppressant agent to rapidly control or extinguish the fire.

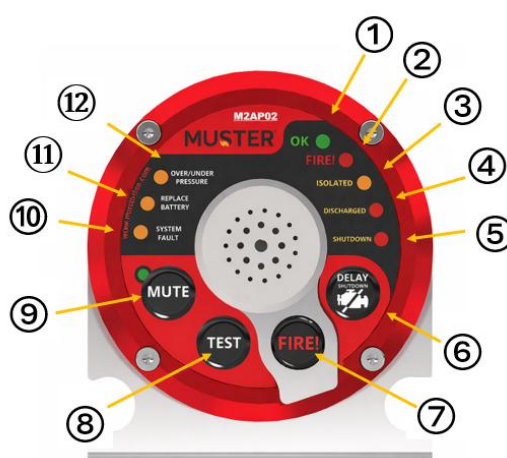
Visual and audible warnings alert the operator when the system is activated. A manual activation function is also provided, allowing the driver to discharge the system if a fire is suspected. The Musterfire alarm panel is located in the operator's overhead console.



Hazard

If the system **FAULT LED**, **OVER/UNDER PRESSURE LED** or **REPLACE BATTERY LED** is illuminated, and **OK LED** is **OFF** park the vehicle and contact your **Musterfire** services agent.

DO NOT OPERATE EQUIPMENT



1	OK LED	Normal Operation. The OK LED will flash green every 3 seconds if on battery only mode or will be solid green if connected to external power supply.
2	FIRE LED	If a fire is detected, the FIRE LED will illuminate red with a ½ second on ½ second off audible buzzer. At 5 seconds from actual SHUTDOWN the buzzer and FIRE LED indicator change to a ¼ second on ¼ second off cycle to indicate the impending shutdown.
3	ISOLATED LED	The system is isolated and will not go into fire mode or discharge automatically. The amber ISOLATED LED will flash, and the buzzer will emit a short pip.
4	DISCHARGE LED	The DISCHARGED LED will illuminate solid red once system has discharged.

5	SHUTDOWN LED	Not used on this vehicle
6	DELAY SHUTDOWN BUTTON	When the system is in FIRE mode, press this button to delay discharge of suppression agent and shutdown by an additional 6 seconds. This may be pressed twice for a total additional delay of 12 seconds before functionality is disabled. DIM FUNCTION The LEDs on the panel can be dimmed for night operations by pressing the DELAY SHUTDOWN button. This function is only available when the Alarm Panel is on Battery Only mode.
7	FIRE BUTTON	When pressed will instantly set the Alarm Panel into FIRE Mode, and an audible buzzer will sound.
8	TEST BUTTON	When the TEST Button is pressed briefly in normal operating mode the panel will reset latched faults on monitored circuits, warning lights and the buzzer. If the TEST button is pressed and held in for 5 seconds, it will enter an output relay test mode. It will then cycle through the 3 output relay circuits with each subsequent press.
9	MUTE BUTTON & LED	When the MUTE button is pressed the buzzer is temporarily muted and the green MUTE LED will flash. Any existing faults will still be present by visual indication only. New faults or a fire condition will cause the panel to reset and audible notifications will recommence immediately. The MUTE function will automatically reset after 2 hours and audible notifications will recommence.
10	SYSTEM FAULT LED	The SYSTEM FAULT LED will flash amber, and the buzzer will chirp every 3 seconds to indicate a system fault.
11	REPLACE BATTERY LED	Battery Capacity less than 40% but greater than 20% - REPLACE BATTERY amber LED will flash every 3 seconds along with OK green LED flashing or solid green depending on whether the external power is connected or not. This is accompanied with short pips from the buzzer which can be muted. Critical Faults on Battery – If the OK green LED is off and only REPLACE BATTERY amber LED is flashing with short pips from the buzzer (can be muted), then the internal Battery must be replaced immediately. Low capacity, low voltage and memory fault are classified as Critical Faults and this information is displayed on the Battery Screen of the Diagnostic Module
12	OVER/UNDER PRESSURE LED	The OVER/UNDER PRESSURE LED will flash amber and the buzzer will chirp every 3 seconds to indicate a pressure fault.

10.0 Vehicle Operation

10.1 Vehicle entry and exit

Located just below the left hand wiper pivot is the door access button. Single press initiate the vehicles ignition system to open the front door.

To exit the vehicle, shut ignition down as per normal, exit the vehicle, locate and press the green door close button. The doors will close.



Information

Once the doors close the door lighting will remain active for approximately 2 mins before complete shut-down.

10.2 Steering column



Hazard

NEVER adjust the steering column whilst the vehicle is in motion.

Steering column adjustment is possible by:

1. Steering Column Height Adjustment

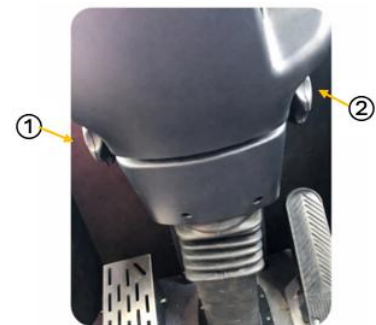
Located on the left side of the steering column.

Turn the adjustment knob **anticlockwise** to release, move the steering column **up or down** to the desired position, then turn the knob **clockwise** to lock the column.

2. Steering Column Rake Adjustment

Located on the right side of the steering column.

Turn the adjustment knob **anticlockwise** to release, move the steering column **forward or rearward** to the desired position, then turn the knob **clockwise** to lock the column



10.3 Mirror cameras



Warning

The operator remains at all times responsible for the safe operation of the vehicle and the assessment of situations during driving and manoeuvring.

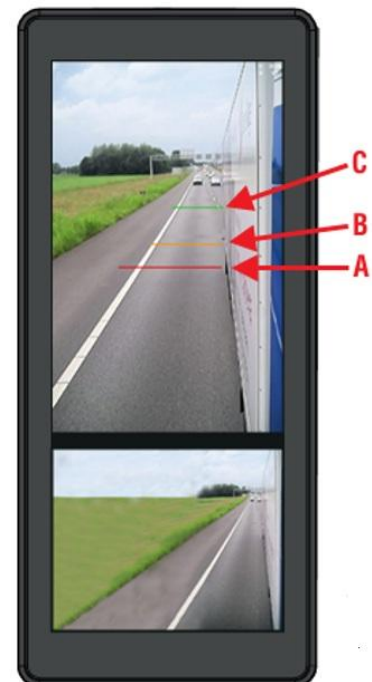
Always ensure the cameras and displays are clean, unobstructed, and functioning correctly. Always perform a full visual check and use direct observation where possible. Reduced visibility may occur in low light, adverse weather, or if the system is faulty. If the mirror camera system does not operate correctly, do not proceed and report the issue in accordance with company procedures.

Each mirror camera monitor displays **two images simultaneously** to enhance driver awareness:

- **Primary (main) image** – Provides rearward vision along the length of the vehicle toward the horizon, supporting normal driving and lane positioning.
- **Secondary (zoom/close-range) image** – Displays a wide-angle view along the side and length of the vehicle, improving visibility of adjacent traffic, pedestrians, cyclists, and obstacles close to the vehicle, particularly during low-speed manoeuvring and turning.

The **Primary image** includes reference lines to assist the driver in judging distances to objects:

- **Red line (A)** – Indicates the position of the rear axle.
- **Yellow line (B)** – Indicates a distance of 1.5 metres from the rear of the vehicle.
- **Green line (C)** – Indicates a distance of 12.4 metres from the rear of the vehicle.



10.4 ADAS (Advance driver assistance system)



Warning

The **ADAS** system is an operator's assistance aid only. It does not replace direct observation or proper lookout. The operator remains at all times responsible for the safe operation of the vehicle and the assessment of situations during driving and manoeuvring.

The vehicle is fitted with a third party **ADAS** system by **Streamax ADKIT** which provides real-time visual and audio alerts to operator. Below is a breakdown of the warnings and how to respond to them:

The system is made up for 3 main parts:

1. R-Watch (section 4.0 item 16)
2. DSM (Driver status monitoring) (section 4.0 item 14)
3. LDWS (Lane departure warning system) (section 4.0 item 2).



Hazard

The **DSM** unit is factory preset and must not be adjusted, as any movement or change will adversely affect system operation.

1. Driver Status Monitoring (DSM) Warnings:

These alerts monitor your internal cabin behaviour to prevent accidents caused by human error. The warning will be display within the **R-watch** and accompanied with audible noise.

- **Fatigue Driving Warning (FDW):** .

	Triggered by prolonged eye-closing or frequent yawning	Action: Safely pull over and rest.
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- **Driver Distraction Warning (DDW):**

	Occurs when you look away from the road for too long.	Action: Immediately return your focus to the road.
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- **Phone Warning (HPW):**

	Detects if you are making a phone call while driving.	Action: End the call.
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- **Smoking Warning (DSW):** .

	Detects if you are smoking while operating the vehicle.	Action: Extinguish the cigarette to maintain safety and compliance
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- **No Driver Warning (NDW):**

	Triggered if the camera cannot detect a driver in the seat while the vehicle is moving.	
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2. Advanced Driver Assistance System (ADAS) Warnings

These alerts scan external road conditions to prevent collisions.

- **Forward Collision Warning (FCW):**

	Alerts you to a high risk of hitting the vehicle ahead.	Action: Apply brakes immediately.
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- **Headway Monitoring Warning (HMW):**

	Detects when you are tailgating the vehicle in front too closely.	Action: Increase your following distance.
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- **Lane Departure Warning (LDW):**

	Warns if the vehicle drifts out of its lane without a turn signal.	Action: Steer back into the centre of your lane.
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- **Pedestrian Collision Warning (PCW):**

	Detects people in your path	Action: Slow down or stop to avoid impact.
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3. R-watch Interface & Display Indicators

The **Streamax R-watch** acts as your dashboard assistant.

- **Visual Icons:** When a warning is triggered, a specific icon (e.g., a steering wheel or a car-collision symbol) will appear on the 1.4" LED screen.
- **Audio Alerts:** Most warnings are accompanied by a beeping to ensure you notice them even if looking at the road.
- **System Status:** A steady green light typically indicates the system is active and monitoring, while red may indicate a connection error or camera obstruction.

10.5 360° Camera system



Warning

The 360° camera system is an operator's assistance aid only. It does not replace direct observation or proper lookout. Blind spots, image distortion, poor lighting, dirt, or weather conditions may limit visibility. Always visually check surroundings and follow company manoeuvring procedures before moving the vehicle.

The 360-degree camera system enhances safety by providing a comprehensive view around the vehicle, helping reduce blind spots and improve operator awareness. Multiple cameras mounted around the vehicle combine to create a simulated top-down (360°) view.

On initial vehicle start-up, the operator's monitor briefly displays a 360° fly-overview before switching to a split-screen display, showing a top-down surround view on the left and a forward-facing camera image on the right.

As the vehicle manoeuvres, the camera views automatically change to assist in identifying potential hazards. When reverse gear is selected, the right-hand display switches to a rearward-facing camera view.

Activating the indicator stalk changes the right-hand display to the corresponding side of the vehicle, helping identify potential hazards along that side.



10.6 Reverse radar



Warning

The reversing radar system is a **driver assistance aid only**.
It **does not replace the driver's responsibility** to visually check the area behind the vehicle.

The reversing radar system is designed to assist the operator during low-speed manoeuvring and reversing operations only. The rear radar system becomes active **only when reverse direction is selected** (refer to **Section 4.7**).

When reversing, the operator's monitor (refer to **Section 4.0**, Page 8, Item 2) displays the rear view of the vehicle and provides audible warnings based on the distance to detected obstructions behind the vehicle,

as follows:

- Objects greater than **0.8 m**: No audible warning
- Objects between **0.6 m** and **0.8 m**: Beep once every 1 second
- Objects between **0.4 m** and **0.6 m**: Beep once every 0.4 seconds
- Objects less than **0.4 m**: Continuous beeping

11.0 AVAS (Acoustic vehicle alerting system)



Warning

AVAS operates automatically and is a safety aid only, drivers must still remain fully aware of their surroundings.

Acoustic Vehicle Alerting System (AVAS) generates an external warning sound when the vehicle is operating at low speeds. As electric vehicles operate with minimal noise, this system is designed to alert pedestrians, cyclists, and other road users to the vehicle's presence, particularly during low speed driving and manoeuvring at speeds up to **25**

12.0 High Voltage charging



Warning

Refer to the charging infrastructure manufacturer for detailed instructions on operating the charging station or pedestal.



Information

The dust covers must always be refitted after charging to ensure the plugs remain clean, dry, and free from damage.

This vehicle is equipped with two **CCS2** charging points to facilitate connection to a high voltage charging station. The dual charging points are provided to improve flexibility when positioning the vehicle within the charging area. Only one charging point can be used at any time.

The charging points are active only while the charging process is in progress.

12.1 Charging status light / cancel button

Located within the CCS2 charge point is a charge-cancel button / status indicator light. The colour of the status light indicates the current state of the charging process.

	Silver button: Pressing the centre of the button will cancel the charging process at any time.
	Solid green: Charging completed and it's OK to remove the charging plug
	Flashing green: Charging in progress.
	Solid Blue: Connection with the charging station established.
	Flashing Blue: Charging process initiated
	Solid red: Communication error with charging station

12.2 Connecting vehicle to charger



Warning

Pressing the cancel button will stop the charging process at any time.



Hazard

The following is a general guide to connecting a vehicle to a charging station. Always refer to company procedures and policies specific to your particular charger.

Prepare the vehicle.

- Park the vehicle in the designated charging bay and apply the park brake.
- Select neutral on direction selector.
- Shut the vehicle down in accordance with normal operating procedures.

Inspect the charging equipment.

- Visually check the charging cables and CCS2 connection point for damage.
- Visually check the charging station / pedestal for damage.

Open charging compartment.

- Open either the left or right charging compartment using ¼ turnkey.
- Ensure the inlet is clean and free from obstructions.
- Remove both rubber dust covers.

Connect the charging cable.

- Align the charging connector correctly with the vehicle inlet.
- Insert the connector fully until it locks in place. Do not force the connection.

Start the charging process .

- Follow the instructions on the charging station interface to initiate charging.
- Confirm that charging has started by checking the station display and the vehicle's charging indicators.

12.3 Disconnecting vehicle from charger

Complete charging and disconnect.

- If the charging has been completed (section **11.1**), pull the CCS2 plug and cable from the vehicle and stow it correctly back into the charging station.
- If charging is still in progress but you wish to stop it, press the cancel button (section **11.1**). Once stopped pull the CCS2 plug and cable from the vehicle and stow it correctly back into the charger station.
- Refit the rubber dust covers.
- Close and lock the compartment door.

Final checks

- Ensure charging cable correctly stow into their holder.
- Ensure the area around the bus is clear before returning the vehicle to service.