BUS AND COACH INTERNATIONAL

Delivering Sustainable Transport

PROMA

Operators Guide

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1.0	Jan/2026	D.D		HB-BCI-SD-0066-26

WELCOME TO BCI

Proma Mid-Sized Coach – Operators 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 Proma.
- 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 producing.

We wish you safe and pleasant journey.

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

Contents

1.0 Using this guide

This guide is designed to help vehicle operators understand the **BCI Proma** 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.

Hazard

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

Information

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

2.0 Warranty

Information

*Additional warranty information can be found on the **BCI Warranty Guide** , supplied with the vehicle at the time of delivery.*

The **BCI** body warranty is limited to **150,000km** or **three (3)** years, whichever comes first. Other body supplier warranties such as air conditioning , destination equipment etc. will be covered directly by the supplier's warranty and can be taken to a supplier's outlet for rectification.

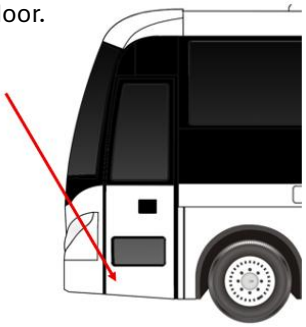
All warranty repairs must be carried out by authorised **BCI** dealer or agent. Failure to comply will result in the warranty claim being rejected. Contact your nearest **BCI** dealer or agent for further assistance.

Limiter liability:

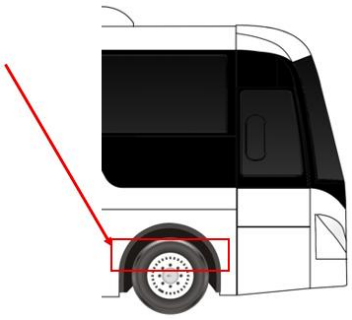
BCI's liability under this warranty is limited exclusively to the repair and replacement of defective parts in materials or workmanship by a **BCI** Dealer at their place of business during normal business hours. This liability specifically excludes any costs associated with hiring a vehicle, transportation to the dealer, and compensation for loss of use of the vehicle during warranty repairs.

3.0 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 vehicles identification number (VIN) is also stamped into the OS (offside) chassis structure behind front wheel.



4.0 Technical specifications

FBC6880CRZ3- Proma	
Overall length.	8835mm
Overall width.	2420mm
Overall height.	3210mm
Wheelbase.	4400mm
Front approach angle.	10 degrees
Rear departure angle.	10 degrees
Turning circle.	16.95m wall to wall
Gross vehicle mass. (GVM)	13500kg
Maximum road speed.	100 km/h
Engine.	Cummin F4.5EVID210
Transmission	ZP 6AP 1020B

Front axle.	IFS with stabilising bar.
Rear axle.	Hande HDZ08P331608008
Suspension.	Air suspension. 2 front and 4 rear air bags
Front doors.	Single leaf plug door
Air Conditioning.	BCC CC225
Rims.	Aluminium 7.5 x 22.5
Tyres	RT600 255/70 22.5

5.0 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 switch bank	7	Mirror control
2	AC controller	8	Emergency override
3	Driver's monitor	9	Park brake
4	AM/FM radio	10	Gear selector
5	First Aid kit (if applicable)	11	Right hand switch bank
6	Media / Cruise controls	12	Digital instrument cluster

5.1 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	
	Left hand blind switch	Rocker Switch	1 = Blind up 2 = Off 3 = Blind lower
	Right hand blind switch	Rocker Switch	1 = Blind up 2 = Off 3 = Blind lower
	Windscreen demister switch	Rocker Switch	1 = Off 2 = Low speed 3 = High speed
	TV Switch (front)	Rocker Switch	1= Closed 2 = Open Auto closes when front door is opened
	Mirror demister	Rocker Switch	1= Off 2 = On
	Passenger door switch	Rocker Switch	1= Up to close 2 = Down to open
	Saloon Lights	3 position Switch	1 = Off 2 = light low 3 = lights high
	Passenger reading lights	Rocker Switch	1= Off 2 = On to activate
	Luggage bin lights	Rocker Switch	1= Off 2 = On to activate
	Driver's Seat Light	Rocker Switch	1= Off 2 = lights on
	Rheostat	Rheostat used to control light density on switches only	
AEBS	AEBS reset	Rocker Switch	Section 11.0
	ACC reset	Rocker Switch	Section 12.0
	ACC distance switch	Rocker Switch	Section 12.0
	LDWS cancelation switch	Rocker Switch	Section 13.0

	Fire suppression switch	Flip lip / Press button	Section 22.3
	Door Alarm warning light	If a door entrapment or door fault is detected this warning light will illuminate , and an audible alarm will sound.	
	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.	
	EBS minor warning light	Electronic braking system **(EBS)** If **ON,** system error, vehicle needs to be taken to authorised dealer.	
	EBS major warning light	Electronic braking system **(EBS)** If **ON** stop the vehicle and contact authorised dealer immediately.	
	ECS warning light	Light remains **ON**, fault with the system, contact authorised dealer.	
	Transmission over heating.	If **ON** contact authorised dealer.	
	IDLE switch	Momentary switch	Press to active fast idle , press again to deactivate fast idle.
	Transmission mode switch	Rocker switch	Switch between economy and power modes
	Vehicle Suspension raise	Rocker switch	1 = Suspension raised 2 = Suspension normal ride height 3 = Suspension lowered

5.2 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 with 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 **7.1**)

5.3 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

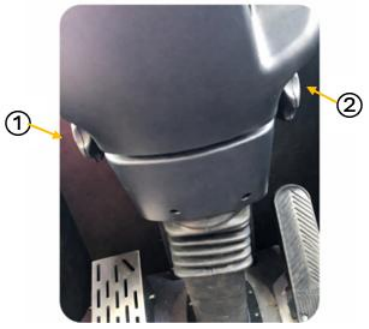
Selecting reverse will activate rearward looking image within the camera monitor (section **5.0** item **3)**

5.4 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.

5.5 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 **7.1**).
	Low beam lights. Rotate handle clockwise two click to align white triangle with icon. Icon on dash will illuminate (section **7.1**). **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.

5.6 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.
	Retarder operation Move the stalk downwards to increase retarder effect 0 = Off 1 = 33% 2 = 66% 3 = 100%

5.7 Steering wheels controls

Left-hand controls (media)		Right-hand controls(cruise)	
MODE	**Mode** button / controls radio modes.	**CRUISE**	**Cruise** button / Press to activate cruise control system.
DR I	**DR I** button / Press to activate driver's speaker.	**RES**	**RES** button / Press to resume the previous speed after it was cancelled by pressing the brake pedal.
	Volume Control / press to raise volume.	**SET**	**SET** button / Press once the desired speed has been reached.
	Volume control / press to lower volume.	**CAL**	**CAL** button / Press to cancel cruise control .
PAS	**PAS** control / press to activate passenger speakers.		
	Mute control / press to mute all sound		

6.0 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

7.0 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 **Proma** 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	RPM gauge (section 7.4**)**	5	Speedometer
3	Vehicle status graphic		

7.1 Upper Warning Lights (1)

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

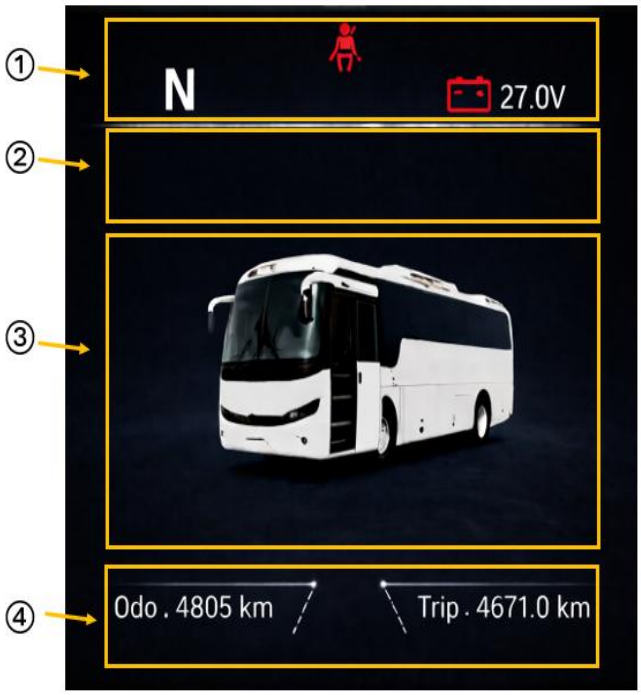
	Tele-tale for left-hand indicator.		Tele-tale for right-hand indicator.
	Illuminates when park brake is applied.	STOP	If illuminated, a major fault is present. The vehicle must be stopped and the fault reported as soon as it is safe to do so.
	Illuminates when clearance/head lights are active.		If illuminated 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

7.2 Left gauge set (2)

Located on the left-hand side of the digital instrument cluster is the RPM gauge, which is divided into five distinct sections. The centre of the gauge incorporates the engine coolant temperature gauge **(1)** and the engine oil pressure gauge **(2)**.
The outer ring of the display indicates engine speed (RPM × 100)**(3)**
The fuel level gauge **(4)** is positioned in the lower-left section, while the brake air pressure gauge for circuit 1 **(5)** is displayed in the lower centre of the gauge

7.3 Vehicle Status Display (3)

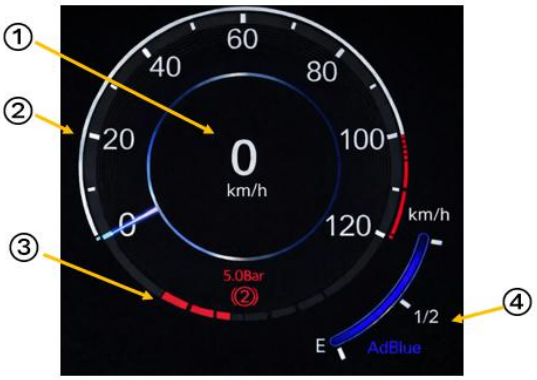
This screen provides a visual overview of the vehicle's current operating status using a digital representation of the bus. It displays key alerts and conditions, such as an open luggage compartment, along with basic system information including gear selection, low-voltage battery status, air-conditioning status, 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 were indicator warning
	Low Coolant warning		Hold Brake / interlock is active
	Door Alarm		Emergency hammer warning
	EBS fault - Major		EBS fault - Minor
	ASR fault		Driver's seat vacant without park brake applied
2	**Key Alert Massages**		
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 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		
LDWS	Lane departure warning system will display in this section (section 13.0)		

7.4 Right gauge set (5)

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**) and the level of the fluid in the Adblue tank(**4**).



8.0 Ignition key

⚠ **Hazard**	
Always remove the key from the ignition lock when leaving the vehicle to prevent unauthorised use.	
	Position **1**: You stop the engine by turning the key to this position and removing the key. Position and hazard lights and some other functions will still operate.
	Position **2** (Radio): When in this position, the vehicle's radio works without any time limits.
	Position **3** (Drive): All electrical systems are engaged. The warning lamps for battery level, oil pressure, brake pressure, etc light up
	Position **4** (Start): The starter motor is engaged in this position. When you release the key , it springs back to the drive position 3.

9.0 Mirror control

To adjust the external rearview mirrors, rotate the toggle switch to the left or right to select the corresponding mirror.
Then, use the toggle to adjust the mirror in the desired direction.

10.0 360⁰ Camera system

Warning

The 360⁰ 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.

11.0 AEBS (Advanced emergency braking system)

Warning

*The **AEBS** function is intended as a driver safety assistant only. It helps the operator maintain a safe following distance and can apply braking to help avoid or lessen the impact of a potential collision. However, it is not a substitute for attentive, responsible driving and cannot make up for driver distraction, inattention, or impairment due to fatigue, drugs, or alcohol.*
It's the driver's responsibility to:

- *Use safe driving techniques.*
- *Exercise proper judgment for the traffic, road and weather conditions.*
- *Maintain a safe distance between vehicles and respect speed limits.*
- *React to road conditions to maintain control of the vehicle at all times.*

*Regardless of whether **AEBS** functions are active, the driver has full responsible for controlling the vehicle's speed, maintaining a safe distance from other vehicles, and braking when necessary to avoid a collision.*
*Never rely solely on **AEBS** warnings before applying the brakes—failing to do so can result in serious injury or death, and/or significant property damage*

Warning

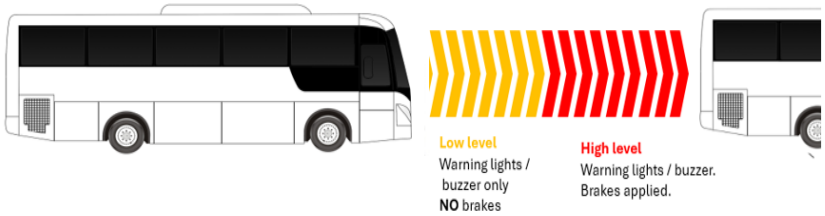
AEBS *can create high vehicle deceleration (without driver intervention) in certain situations. To reduce the risk of injuries caused during activated vehicle deceleration,*

- *All passengers should be correctly seated during vehicle operation.*
- *All loose items should be secured so that they cannot become projectiles causing injuries. Using **AEBS** in vehicles that are not equipped with seat belts may increase the risk of injury during sudden deceleration, even if the vehicle meets all applicable safety standards.*

BCI utilises **ZF OnGuardMAX**, an advanced Collision Mitigation System **(CMS).** This system employs forward-facing radar to detect objects ahead and continuously monitors the vehicle's position and speed relative to others on the road. It alerts the driver to potential forward collisions into another vehicle through audible, visual, and haptic warnings. If necessary, it can also engage the brakes automatically via the Advanced Emergency Braking System **(AEBS)**

Warning

The system is only active when the vehicle exceeds **15**kph.



The following switch and warning lights are on the dash:

Information

The **AEBS** function will automatically be reinstated at the initiation of each new ignition cycle, regardless of whether the function was previously disabled.

	**AEBS** Switch: Pressing this switch disables the **AEBS** function .
	AEBS off indicator: If the above switch is off this warning will illuminate.
	AEBS Fault indicator: Illuminates in the instrument cluster whenever an AEBS system fault occurs .
	Collision warning level 1: This icon will flash to warn of a potential collision and is accompanied by an audible buzzer.
	**Collision** warning level 2: This icon will illuminate with a constant audible buzzer to warn of the potential collision and activation of the braking system.

Information

Any operators input, via accelerator, brake or direction indicator controls will interrupt the collision warning phase & emergency warning phase.

12.0 ACC (Adaptive cruise control)

Warning

ACC is a driver-assistance feature only and must not be relied on as a substitute for attentive driving. The operator remains fully responsible for maintaining safe control of the vehicle at all times and must be prepared to brake or steer as required. **ACC** may not detect all vehicles, road users, or driving conditions.

ACC automatically maintains a set vehicle speed while adjusting to traffic conditions by detecting vehicles ahead. The system uses onboard sensors to regulate acceleration and braking, maintaining a safe following distance selected by the operator

The system is activated using the controls located on the steering wheel (refer to Section **5.7**). The system utilises a combination of switches and warning indicators , within the dash to inform the operator of system status, activation, and any faults or limitations.

The following warning lights and switches form part of the **ACC** system.

Information

The **ACC** function will automatically be reinstated at the initiation of each new ignition cycle, regardless of whether the function was previously disabled.

Information

When the operator applies the brakes, Cruise Control is immediately deactivated. When Cruise Control is re-engaged, Adaptive Cruise Control (**ACC**) is automatically activated.

	**ACC** Switch: Pressing this switch will disable the **ACC** function.
	**ACC** Distance Switch: Pressing the top of the switch will increase the distance from the vehicle in front. Pressing the bottom of the switch will decrease the distance to vehicle in front.
ACC warning lights / displayed on instrument cluster	
	The **ACC** system is activated and set.
	Indicates a system fault. Present the vehicle to an authorised **BCI** dealer for further investigation.

13.0 LDWS (Lane departure warning system)

Warning

LDWS is a driver-assistance feature only and must not be relied on as a substitute for attentive driving. The operator remains fully responsible for maintaining safe control of the vehicle at all times and must be prepared to brake or steer as required.

Lane Departure Warning System (LDWS) monitors the vehicle's position within lane markings using forward-facing sensors or cameras. If the system detects unintentional lane departure without an active indicator, it provides a visual and/or audible warning to alert the operator.

The visual warning is displayed in the lower centre of the main digital instrument display (refer to Section 7.3, Item 4). Once the system is active at speeds above 60 km/h, any unintended lane deviation is detected, and the operator is alerted by the following indications:

	**LDWS** Switch: Pressing this switch will disable the function.
	**Right** Lane Departure Optical Warning Indicator: When this warning illuminates, the vehicle has drifted to the right and is accompanied by an audible buzzer.
	**Left** Lane Departure Optical Warning Indicator: When this warning illuminates, the vehicle has drifted to the left and is accompanied by an audible buzzer.
	LDWS off warning: This warning advises that the operator has deactivated the system using the **LDWS** switch.
LDWS	**LDWS** fault light: Illuminates if there is system error or fault .

14.0 Accessory systems

14.1 AM/ FM Radio

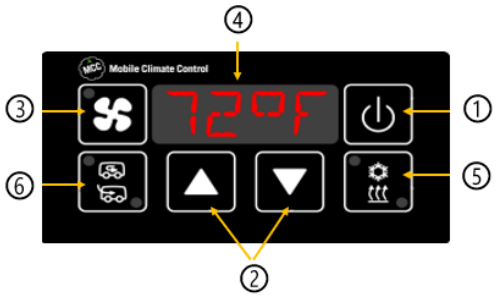
The vehicle is equipped with an Audiobus (S2454BTA) dual-zone DVD/CD/Bluetooth system with FM/AM tuner. Operating instructions are available from authorised Audiobus or BCI dealers.

14.2 Air conditioning

Information

The air conditioning system will vary based on customer configurations and specifications. For more details, contact the local authorised service agent for the relevant supplier.

14.2.1Mobile climate control



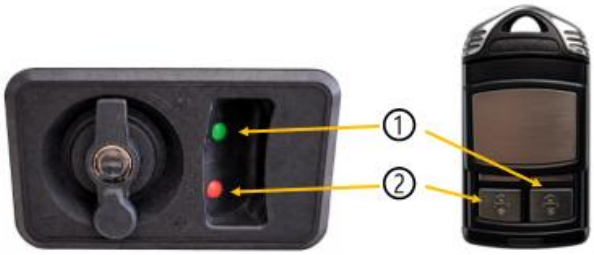
1	Controller power On/Off	4	Information / Display settings
2	Up and down cursors	5	Control mode
3	Fan speed control	6	Air mixture control

15.0 Vehicle Access

External access to the vehicle is via the vehicle remote (FOB) or external door buttons.

Ensure the passenger door is not locked by:

- Inserting key and rotate clockwise 90^0 to vertical.
- Rotate handle clockwise 90^0, release the handle and it will spring back to original position.
- Rotate key back to original position and remove.
  Open the passenger door by pressing button (1) on the remote or green button (1) on the door lock.



Closing the passenger door by pressing button (2) on remote or the red button (2) on the door lock.

To lock the passenger door:

- Insert key and rotate clockwise 90^0 to vertical
- Rotate the handle 90^0 counterclockwise, release the handle and it will spring back to its original position.
- Rotate key back to original position and remove

16.0 Reverse sensors

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 5.0 item 3**).

When reversing, the operator's monitor 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

17.0 Rear engine start

Information

Engine compartment controls for maintenance activities by authorised staff only.

Additional engine start and stop controls are located in the engine compartment for use during maintenance activities. The main ignition key must be in the ON position for these controls to function

18.0 Door maintenance button

Warning

All door maintenance or repairs must be carried out by an authorised repairer. This function is intended solely for maintenance purposes and must not be used during the vehicle's normal operation.

During a door safety system failure, it may be necessary to temporarily disable the system.
There is a "**Door Maintenance**" button provided within the main dash cavity for authorised staff. When pressed, the doors enter a maintenance mode.
In this mode, if the doors are not fully closed, the throttle interlock will release.
The brake interlock will remain active until either the throttle or brake pedal is pressed. Once pressed, the brake interlock is released, allowing the vehicle to be moved with the doors open.

Note: When the button is pressed, the "Door Alarm" and warning light will activate, and a timestamp of the event will be recorded in the door system
To restore the safety functions, press the "Door Maintenance" button again.
If the door is not fully closed, the brake and throttle interlocks will be reactivated

19.0 DPF (Diesel Particulate Filter)

Information

*For additional information contact authorised **Cummin** dealer or agent .*

The Cummins Euro 6 ISL engine is equipped with a Diesel Particulate Filter (DPF) mounted on the exhaust system, which filters carbon particulates produced during the combustion cycle.

As part of the engine operation both soot and ash are produced and over time excessive amounts accumulate in the aftertreatment (**DPF**) and must be removed. Soot is removed by process called regeneration. Ash is removed by removing the aftertreatment DPF and cleaning at specified intervals.

Regeneration is classified into two different types, passive and active.
Passive Regeneration.
This occurs naturally when exhaust temperatures are high enough that the soot collected is oxidized and burnt off by the **DPF**. Typically occurs in vehicles driven at high speeds and/or under heavy loads (etc, highway driving).

Active Regeneration.
This occurs more frequently in vehicles operating at low speeds, low loads on stop-start duty cycles. It's where the Soot builds-up in the **DPF** and is unable to be burn off.
The vehicle will enter a regeneration cycle, the warning light (section 7.0) will illuminate, and the regeneration process will automatically occur by the engine .

HAZARD

During an active regeneration process, the vehicle is not drivable. Additionally, the exhaust system may reach higher-than-normal temperatures. Exercise caution around the exhaust and tailpipe, especially near potential ignition sources such as dry grass or other flammable materials

Aftertreatment switches.

If an active regeneration begins during normal day-to-day operations, it can be cancelled to allow the vehicle to complete its shift and return to the workshop or depot. To do this, locate the **DPF** regeneration inhibit switch and press it. Once the LED indicator is illuminated, regeneration has been successfully inhibited.

Maintenance staff can resume the regeneration process by deactivating the **DPF** regeneration inhibit switch and then activating the **DPF** regeneration switch .

20.0 Sleep mode

Hazard

The sleep mode function must only be operated by authorised maintenance personnel.

Sleep mode is a low-power state that the vehicle enters after 2–3 minutes of inactivity. This function helps conserve battery power to ensure adequate voltage when reactivation is needed.

The activation of any of the following vehicle inputs will either prevent sleep mode from initiating or wake the vehicle from sleep mode.

- Door activity, either opening or closing.
- Key activation in either position 1 or 2. (section 8.0).
- Activating Hazard lights.
- Activating park lights.
- Park brake in released position

Sleep mode can interfere with maintenance activities, a sleep mode override switch is available in compartment on right as you enter passenger step well.

- Position 1 = (pinned) Sleep mode active.
- Position 2 = All bus functions disabled.
- Position 3 = Sleep Mode override active.

21.0 Battery isolation

The main power of the vehicle is controlled by the battery master switch located in second last compartment on (NS) passenger side.

Rotate switch clockwise to the **ON** position to supply power from the batteries to the vehicle.

Rotate anti clockwise to disconnect battery supply.

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**.

22.0 Emergency operation

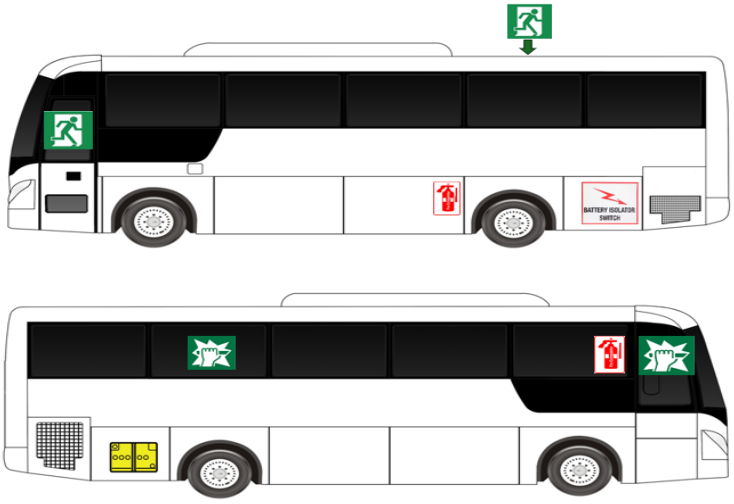
WARNING

In an emergency, the safety of passengers and the general public is the highest priority. If conditions allow, bring the vehicle to a safe and secure location to facilitate evacuation.
Always adhere to your company's safety protocols and procedures.

22.1 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.



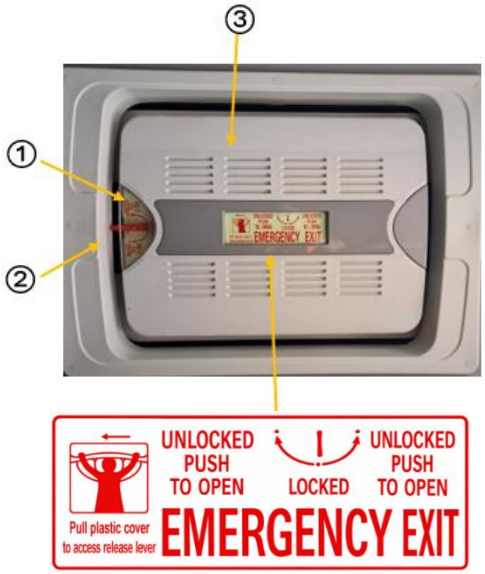
	2 Emergency exits. • Front service door. • Rear roof hatch. (section 22.2)
	2 Emergency break glass exits. • One break glass exit is located on OS (offside), above rear axle. • The second exit is just behind the operator’s window above front axle. • Internally both windows have hammers located within close proximity.
	The vehicle is equipped with two portable fire extinguishers: • One located internal behind the driver's seat. • Second located externally in the NS (nearside) luggage compartment in front of rear axle
	24V Battery isolation switch is located in nearside compartment behind rear axle.
	24-volt batteries are located in offside compartment behind rear axle .

22.2 Emergency exit / roof hatch

The Proma 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.

22.3 Fire suppression system

Warning

The fire suppression system must be inspected annually by an authorised **BCI** dealer.
Cylinders must be recharged or replaced every five **(5)** years.

The Proma can be equipped with an automatic fire suppression system located in the engine bay. This system can detect a fire and automatically discharge the suppression agent. It also allows for manual activation by the operator if required.

Manual Activation Procedure:

- Lower the front plastic cover.
- Press and hold the red button for 1–2 seconds to release the suppression agent.
- Once activated, the button will illuminate, and a continuous buzzer will sound until the ignition power is reset.

System Function Test:

- When the ignition switch is turned on, the green LED within the fire suppression switch will illuminate, indicating the system is operational and free of faults.

If a fault is detected after ignition is turned on, the LED will illuminate yellow, and a buzzer will sound for approximately 5 seconds

22.4 Emergency override

Warning

The emergency override is a critical safety function and should only be used in true emergency situations. It must not be used as part of normal operations.

The vehicle is equipped with an interlock system to prevent accidental movement during door operations.

If the vehicle experiences a system failure in a hazardous location and needs to be moved, an "Emergency Override" button is available on the dash. Pressing this button temporarily disables the interlock system, allowing the vehicle to be relocated safely only while the button is held. The door alarm warning will be activated once pushed .

22.5 Emergency internal operation

Warning

Safety is the top priority for all passengers and public. If the vehicle needs to stop and be evacuated, ensure it is positioned in a clear and safe location before proceeding.

In the event of an emergency locate the manual release valve in the passenger door stairwell.

- Press the red tag (1), to release spring-loaded clear plastic cover.
- Rotate red handle (2) clockwise to manually release door pressure.
- Push the door open to exit the vehicle.

22.6 Emergency external operation

In the event of an emergency, locate the manual release valve under the front left hand bumper corner.

- Rotate the red handle (1) 90^0 clockwise to manually release door pressure.
- Manually pull the door outwards to allow exiting