



Cruiser

Operators Guide



Chassis

All rights reserved by the Technical Center of Bus & Coach International Pty Ltd

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

Version	Date	Prepared	Document No
1.0	Mar-2025	DD	HB-BCI-SD--0058-25

Bus and Coach International Pty Ltd

Welcome to BCI

Congratulations on selecting a vehicle from the Bus and Coach International (BCI) range of high-quality products. We are confident that you will appreciate its exceptional craftsmanship and performance.

*This **CRUISER** is renowned for its quality, safety, and comfort. Built on a premium European chassis (OEM), it offers smooth handling, high performance, quiet operation, with outstanding fuel efficiency.*

To get the most out of your new BCI vehicle, please take the time to read and understand the operator's guide. It contains essential information on proper operation to maximising its benefits.

Contents

1.0 Using this guide.....	4
2.0 Vehicle Information.....	5
3.0 Warranty.....	5
4.0 Technical Specifications.....	6
4.1 Body.....	7
5.0 Driver’s seat.....	8
6.0 OEM Instrumentation and controls.....	9
7.0 OEM Steering column stalks and controls.....	10
7.1 Indicator and high beam.....	10
7.2 Windscreen wipers and washers.....	10
7.3 Scania lighting panel.....	10
7.4 Drive mode selector.....	11
7.5 Opticruise mode selector.....	11
7.6 Retarder stalk.....	11
7.7 OEM Chassis control switches.....	12
7.8 Park Brake.....	12
8.0 Body switches.....	13
8.1 Body warning lights.....	14
9.0 Vehicle operations.....	15
9.1 360° Camera system.....	15
9.2 Battery Master switch.....	16
9.3 Rear engine controls.....	16
9.4 Vehicle access.....	17
9.5 Ignition key.....	17
9.6 Sleep mode.....	18
9.7 Steering wheel lock.....	18
10.0 Emergency door operation.....	19
10.1 Emergency Internal operation.....	19
10.2 Emergency external operation.....	19
10.3 Emergency override.....	19
10.4 Door maintenance button.....	20
10.5 Emergency switch.....	20
10.6 Emergency release luggage bins.....	20

10.7 Fire suppression system (* optional).....	21
11.0 Emergency Exits	22
11.1 Emergency roof hatches	22
12.0 Accessory systems	23
12.1 Air conditioning	23
12.1.1 Mobile climate control.....	23
12.1.2 Coachair controller	23

1.0 Using this guide.

This guide is intended to help vehicle operators maximise the performance of the Cruiser product. It is the owner's/operator's responsibility to ensure the vehicle is operated in full compliance with all applicable laws and regulations in the region of use.

Operate the vehicle with care and diligence. BCI is not liable for any loss resulting from improper use of the product.

This document contains critical safety messages designed to prevent personal injury. It is essential to follow all safety instructions provided to avoid injuries or fatalities. Pay close attention to the symbols and layouts highlighted in this guide.

This guide is intended for the body only; for additional technical chassis information, please consult your nearest OEM-authorized service centre



WARNING

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



HAZARD

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



INFORMATION

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



INFORMATION

*Additional information or verification is via **SCANIA's** authorised dealer network. **SCANIA's** dedicated driver's guide is available on-line through any APP store.*

2.0 Vehicle Information



WARNING

Operate the vehicle in compliance with all applicable laws, regulations, and statutory requirements. **BCI** will not be responsible for any loss or damage resulting from improper use of the product.

Vehicle identification number (VIN) is located in two places:

1. On vehicle identification plate located in the front door entry steps.
2. VIN is stamped on the chassis structure behind the right-hand front steer tyre.

3.0 Warranty



INFORMATION

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



INFORMATION

For additional information or verification on any OEM warranty, contact a **Scania** authorised dealer.

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.

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.

4.0 Technical Specifications



INFORMATION

The technical specification serves as a guide. Each vehicle may vary based on the chassis and customer-specific variations or requirements.



INFORMATION

For additional information or verification on any OEM components, contact a **Scania** authorised dealer.

Body Dimensions	
Overall L × W × H	12300 * 2495 * 3810
Wheelbase	6120
Front overhang	2736
Rear overhang	3431
Approach angle / departure angle (full load) (°)	7.8 / 7.8
Vehicle Mass (Kg)	
Body Mass (approx.) (Vehicle with 57 seats)	12,900kg
Gross Vehicle Mass (GVM)	18000
Maximum axle laden mass (front / rear)	7,500 / 12,000
Performance Parameters	
Maximum Speed (km/h)	≥100
Maximum angle of grade ability (%)	≥38%
Minimum diameter of turning (m)	≤23.5m
Engine	
SCANIA	Euro 6 - 9 L. DC09 140/320 hp
Transmission	
ZF	6 SPEED - ZF ECOLIFE 6AP1620B or GRS895R
Axles	
Front	Scania RFS AM660S 7,500kg
Rear	SCANIA Rear axle AD400SA 12,000kg
Rims and tyres	
Rims	8.25 x 22.5 Alu Alcoa Dura Bright
Tyres (Front / Rear)	295 / 80R22.5

Brakes	
Scania	Electronic Braking System (EBS) with integrated Anti-lock Braking System (ABS), Brake Blending, Hill Start Aid, Brake Assist. SCANIA Electronic Stability Program (ESP) and built-in hydraulic retarder available as standard.
Electric Equipment	
Circuit system	Single wire system, Negative earth
Circuit voltage	24V
Alternator	150A x 2
Storage battery	2 x (12 v 230Ah)
Instrument Panel	Combination instrument panel, including Odometer, Tachometer, Intelligent signal processor, Voltage meter, Water TEMP gauge, Oil-pressure gauge, Fuel-level gauge, Air-pressure gauge, Indicators for high beam lights etc.
Fuel Tank	
Aluminium tank	300 / 400 / 600 litres (depending on vehicle variation)

4.1 Body

The vehicle body is a monocoque construction, made with Australian galvanize steel tube. It's designed to comply with ADR 59 roll-over requirements. The main framework components have been treated to ensure anti-rust properties.

Vehicle doors and panels	
BCI	Easy access aluminium frames and panels, with fibreglass side stretch panels.
Vehicle windows	
BCI	The front windscreen is laminated glass; the side windows are 4mm thick toughened glass with a dark grey tint. All glass is fully bonded to the body.
Seats	
Passenger	All seats are approved for public transportation and are available in fixed back, reclining or metro configurations subject to customers' requirements.
Driver's Seat	ISRI controls & 3-point safety belts.
Air Conditioning	
Coach Air	CA40, Roof mounted independent cooling system (33kw) Other options can be fitted.
Heating	Floor heaters (optional).
Demister	Front installed demister unit with 2 speed fan.
Interior trim	
Accessories	Digital clock, driver's side sun visor, electric front windshield sun visor, interior rear-view mirror, and emergency hatches. Electrical devices: Driver's microphone, Harine 10.1-inch central multi-function touchscreen media, 12v USB.

5.0 Driver's seat



HAZARD

The ergonomic design of the driver's seat is essential for comfort, safety, and efficiency. A properly adjusted seat reduces the risk of injuries, minimises fatigue, and enhances overall productivity.



WARNING

Always apply park brake before leaving driver's seat. Dash warnings and alarms will be activated if the seat belt is removed at any time the park brake is not applied. Passenger door will not open unless the park brake is applied.

ISRI® 6860/875 NTS, with advanced design incorporating third generation suspension technology ensures maximum safety and comfort. Efficient operating weight range of 50 to 150kg, integrated 3-point seat belt, integrated head restraint, adjustable vertical shock absorber, integrated pneumatic system (IPS) dual stage air lumbar with lateral support. * Location of controls could vary depending on specifications.



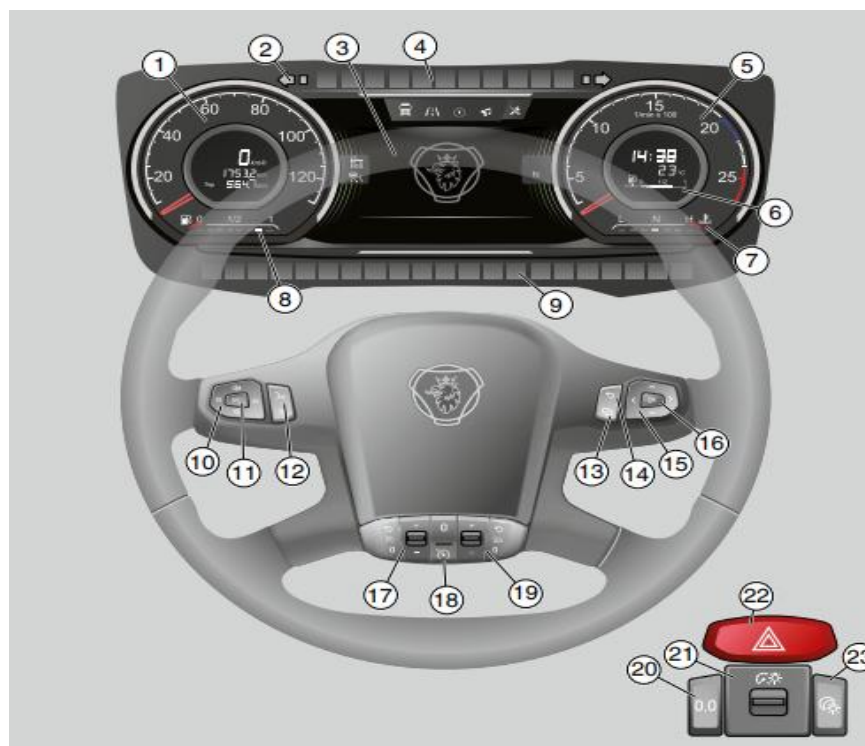
1	Belt adjustment	8	Vertical shock absorber
2	Armrest adjustment	9	Quick release
3	Backrest adjustment	10	Horizontal isolator
4	Shoulder adjustment	11	Seat cushion adjustment
5	Seat climate control	12	Horizontal adjustment
6	Integrated pneumatic system(IPS)	13	Tilt adjustment
7	Height adjustment(+memory)		

6.0 OEM Instrumentation and controls



INFORMATION

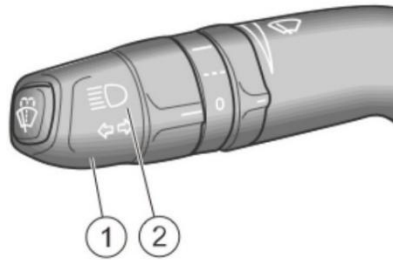
The following is a quick reference guide only. For detailed information on any of the OEM equipment or systems, please refer to the SCANIA “Driver’s Guide” or contact an authorised dealer



1	Speedometer.	13	Instrument cluster: quick selection
2	Direction indicator.	14	Instrument cluster: back button
3	Display.	15	Instrument cluster: menu navigation
4	General warning symbols.	16	Instrument cluster: OK button
5	Tachometer.	17	Cruise control
6	Display showing reductant level, outdoor temperature and clock.	18	Adaptive cruise (Option)
7	Coolant temperature gauge.	19	Downhill speed control (Option)
8	Fuel level gauge.	20	Trip meter
9	Indicator lamps and warning symbols.	21	Adjusting the lighting in instrument cluster
10	Radio: Change track, station (Option)	22	Hazard warning button
11	Radio: selection of audio source (Option)	23	Night lighting in the instrument cluster
12	Radio: volume control (Option)		

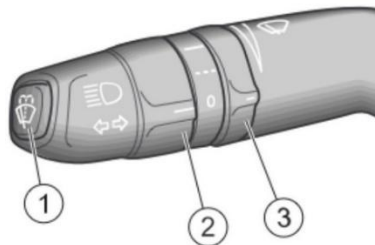
7.0 OEM Steering column stalks and controls

7.1 Indicator and high beam



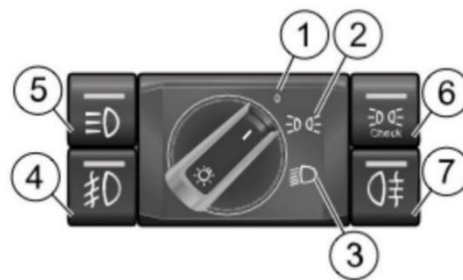
1	Directions of indicators	2	Main and dipped beams
---	--------------------------	---	-----------------------

7.2 Windscreen wipers and washers



1	Windscreen wiper and washer: Press the end of the level	3	Windscreen wipers” turn the ring to select the wiper interval speed.
2	Windscreen wiper: turn the ring to start the windscreen wiper and select the speed.		

7.3 Scania lighting panel



1	Position 0 (off)	5	Spotlight
2	Position lamp position	6	Testing the external lighting
3	Main beam and dipped beam position	7	Rear foglight
4	Front foglight		

7.4 Drive mode selector

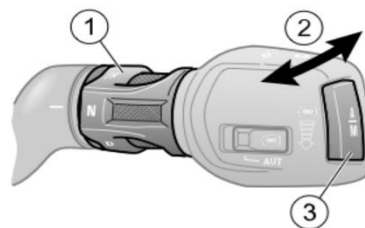
- **R** = Reverse (R)
- **N** = Neutral (N). Used when starting the engine, for long stops and when parked.
- **D** = Forward drive mode, all gears are used.



The selected drive mode is shown in the display.
If a choice of gear is prevented, the drive mode symbol flashes in the display.

7.5 Opticruise mode selector

Vehicles with Opticruise have a lever you can choose drive mode, change gear and switch between automatic and manual gear changing.



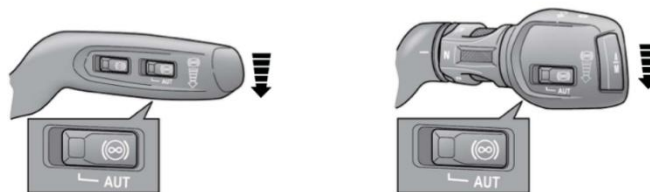
1	Drive mode selector	3	Automatic gear changing A or manual gear changing M
2	Changing up and down		

- Move the drive mode selector towards the steering wheel before turning it to position R.
- Move the Opticruise lever towards you to change up (+) or away from you to change down (-).
- Select between automatic gear changing **A** or Manual gear change **M**.

The Opticruise lever can appear differently depending on the vehicle's configuration.

7.6 Retarder stalk

The retarder is an auxiliary brake designed for prolonged braking applications. To function efficiently, the engine speed must be above 1,800 RPM.



To activate the automatic retarding, place the slide control into the on (AUT) position. To adjust the braking effect, move the lever to 1 of 6 positions. As you move the lever downwards, the braking effect gradually increases. After braking, return the lever to position 1 to prevent auxiliary braking from engaging when you stop accelerating.

7.7 OEM Chassis control switches



1	Kneeling switch : Up and Down	5	Traction control: on/off switch
2	Kneeling: Return to normal drive height	6	Lane departure warning: on/ off switch
3	Kneeling: complete lower and raise	7	Advanced emergency braking (AEB): deactivation.
4	Accessory mode switch.		

7.8 Park Brake



WARNING

*Always apply parking brake before leaving the driver's seat.
Failure to do so may result in unintended movement, leading to potential injury or damage.*

Always apply the parking brake before leaving the driver's seat. The parking control is positioned on the right-hand of the instrument panel.

The parking brake control.

1. To release, press down on the control as far in as it will go while:

-putting your foot on the brake pedal.

or

-depressing the accelerator pedal with a gear engaged.

2. To apply, pull up on the control to its maximum position.

Red warning  will illuminate in the instrument cluster.



8.0 Body switches



INFORMATION

Switch availability and placement will vary based on customer configurations or specific model variations

Icon	Description	Operation
	Windscreen demister	Three position switch : <ul style="list-style-type: none"> • Up is off • Middle is low speed • Down is high speed
	Rear view mirror mode adjustment switch	Pressing the switch adjusts the contrast of the mirror monitors.
	Driver's window switch	Press bottom of switch to open and top of the switch to close driver's window.
	Spotlights (Bull Bar)	Press to activate spotlights with high beam.
	RED / Passenger door control	Push bottom on the switch open door and press top of the switch to close door.
	Drivers fan switch	Press to activate drivers' fan (2 speed)
	Blind switch	Left and right front blinds / press bottom of the switch to lower the blind / press top of the switch to raise the blind.
	Air / electric horn switch	Press bottom of the switch for air horn / press top of the switch for electric horn.
	Interior saloon lights	Two position switch : <ul style="list-style-type: none"> • Up is low intensity • Down is high intensity.
	Passenger reading light switch	Press bottom of the switch to activate Press on top of the switch to deactivate
	Aisle light switch	Press bottom of the switch to activate under seat lighting. Press on top of the switch to deactivate.

	Luggage bin lights	Press bottom of the switch to activate lights in luggage compartment / press top of switch to deactivate.
	Luggage bin locks	Press to lock and unlock luggage bins.
	TV control switch	Press bottom of the switch to lower TV / Press top of the switch to raise TV (note ; TV automatically returns to close position if passenger doors is opened)
	School lights	Press bottom of switch to activate school lights / press top of switch to deactivate.
	Mirror heats	Press bottom of the switch to activate mirror heating .
	Destination signage	Press bottom of the switch to activate destination signage / press top to deactivate.
A/C	Air conditioning	Press bottom of the switch to turn on the power supply to AC controller.
WIFI	WIFI switch	Press bottom of the switch to activate WIFI system/ press top of switch to isolate the system

8.1 Body warning lights

	AMBER Wheelchair door is open.		AMBER Sewage tank requires emptying
WC	RED Toilet is occupied		RED Park brake has NOT been applied
	RED Toilet water tank requires water		RED Error has occurred with the door
	RED Seat belt has NOT been fastened		RED An emergency hammer has been removed from its holder.

9.0 Vehicle operations

9.1 360° 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.



9.2 Battery Master switch

The main power of the vehicle is controlled by the OEM battery master switch located in the battery compartment under the driver's floor area.

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



Rotate anti clockwise to disconnect battery supply.



HAZARD

*Do not switch off the battery master switch if the symbol for the exhaust gas aftertreatment system is displayed . Wait at least **10** seconds after switching to the **OFF** position before switching back to the **ON** position*

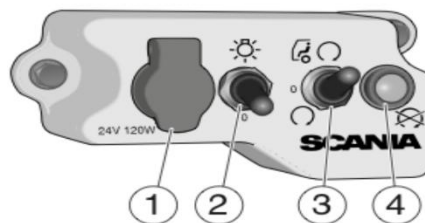
9.3 Rear engine controls



INFORMATION

*For additional information or verification on any OEM components, contact a **Scania** authorised dealer.*

The **Scania** chassis features an engine operating control panel located in the rear engine compartment. This panel allows for engine start and stop functions, starter isolation, operation of engine compartment lights, and connection of external lighting.



1	External light socket	3	Start and rear isolation switch
2	Engine compartment light	4	Engine stop switch

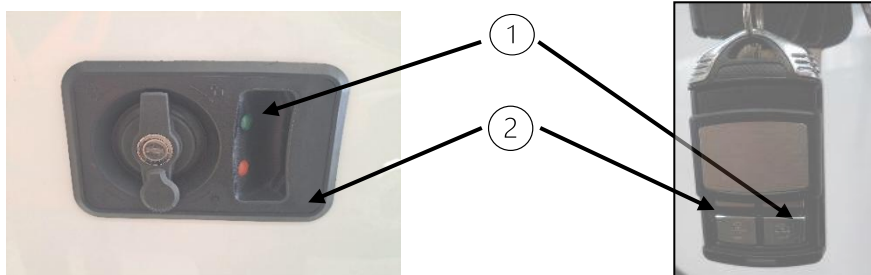
9.4 Vehicle access

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

9.5 Ignition key



HAZARD

Always remove the key form the ignition lock when leaving the vehicle to prevent unauthorised use.

	<p>Position 1 (locked): You stop the engine by turning the key to this position and removing the key. Turn the steering wheel until steering lock engages. Position and hazard lights and some other functions will still operate.</p>
	<p>Position 2 (Radio): When in this position, the vehicle's radio works without any time limits.</p>
	<p>Position 3 (Drive): All electrical systems are engaged. The warning lamps for battery level, oil pressure, brake pressure, etc light up</p>
	<p>Position 4 (Start): The starter motor is engaged in this position. When you release the key , it springs back to the drive position 3.</p>

9.6 Sleep mode

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 9.3).
- Activating Hazard lights.
- Activating park lights.
- Park brake in released position

If sleep mode interferes with maintenance activities, a sleep mode override switch is available under the dashboard



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

9.7 Steering wheel lock .



HAZARD

Steering wheel positioning is essential for an ergonomic setup. Adjusting it correctly ensures comfort, safety, and efficiency while reducing the risk of injury, minimising fatigue, and enhancing overall productivity.

The steering wheel height and angle can be adjusted by:

Locating the steering lock button on the steering column next to direction indicator and wiper stalks:

- Push the button into the adjustable position, move steering wheel column to the preferred position. You will have few seconds to complete this before the lock is automatically engaged



Once the desired position has been reached , return the switch to locked position. Lock will automatically engage after few seconds.

10.0 Emergency door operation



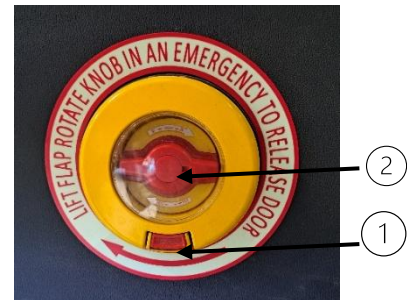
WARNING

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

10.1 Emergency Internal operation

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.



10.2 Emergency external operation

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

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



10.3 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 (section 8.1) .



10.4 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.

10.5 Emergency switch



WARNING

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

An emergency switch is provided on the dash. To activate pull up on red toggle cover to break the seal exposing the toggle. Pulling up on toggle will:

- Isolates all main power supply.
- Shut the engine down.
- Unlock all door mechanisms.
- Activate hazard lights.

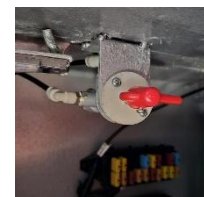


Returning the toggle cover to its original position will restore all systems.

10.6 Emergency release luggage bins

If a luggage bin door locking mechanisms fails, a release valve is located within a service hatch on the right-hand side of the passenger door entry.

- Locate and open hatch.
- Rotate the red handle 90°.
- To reactivate the locks, turn red handle 90° back to its original position.



10.7 Fire suppression system (* optional)



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.

The Classmaster is 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.



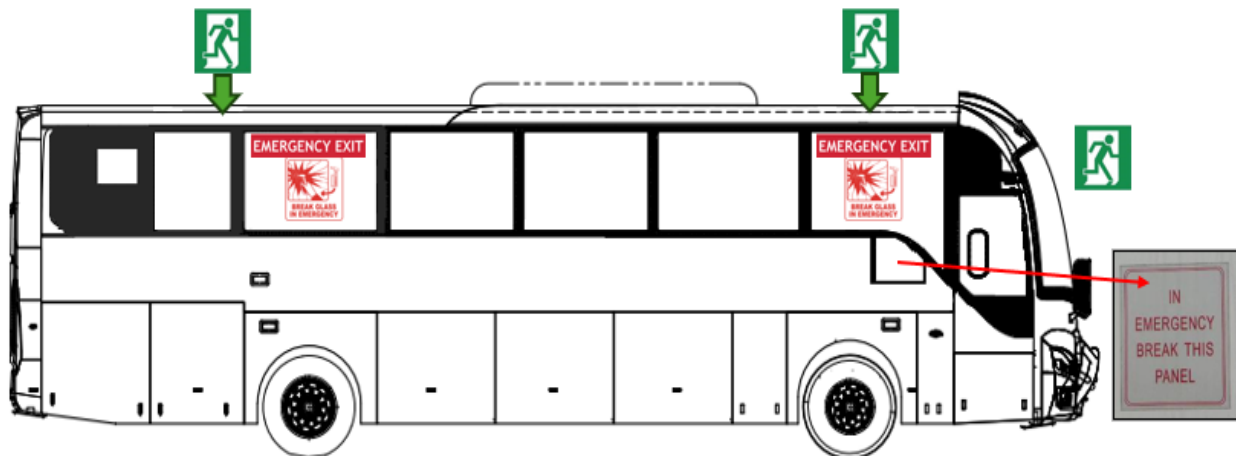
WARNING

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

11.0 Emergency Exits

Your BCI Cruiser is fitted with **(6) six** emergency exits:

- Two roof hatch exists.
- Two break glass exists on driver's side of vehicle.
The front exist requires the removal of small side panel to increase exit size.
(Emergency Hammers are located internally at each exist).
- Existing in emergency is possible via the front passenger door (section 9.3.1).



11.1 Emergency roof hatches

The two (2) roof hatches can be used in an emergency as follows:

- Pull plastic cover off to access the red release lever.
- Rotate the lever left or right, to unlock.
- Push the hatch up and out to open.
- When clear and safe, exit the vehicle.



12.0 Accessory systems

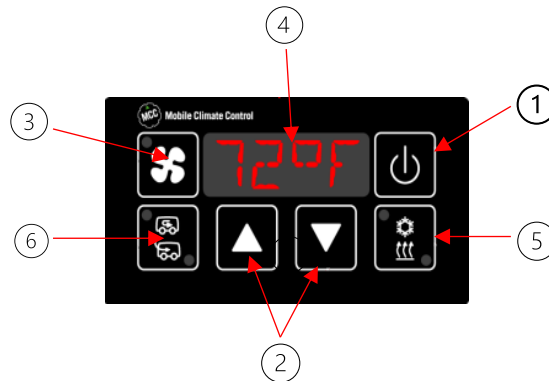


INFORMATION

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

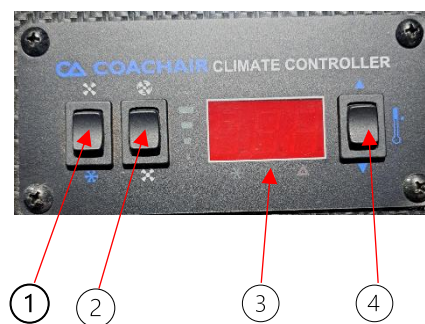
12.1 Air conditioning

12.1.1 Mobile 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

12.1.2 Coachair controller



1	Fan only, off and full A/C	3	Display
2	Four level fan speed control	4	Temperature control