



## Vehicle Information Pack Manual

PRODUCED BY  
Babcock Vehicle Engineering Ltd.



Vehicle make/model	Duty
Mercedes Sprinter	Wellbeing
Build reference	
Lancashire Police Wellbeing Vehicle	

## Document Change History

Change Order No.	Summary of Change	Issue	Date
1	Initial Issue	1	19 May 2020

## Document Approvals

Document Author(s)	Signed	Date
Technical Author	J Bradley	19 May 2020

Document Approval			
Appointment	Organisation	Signed	Date
Head of Engineering	Babcock Vehicle Engineering Ltd.	T. Davies	19 May 2020

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## Vehicle External Views

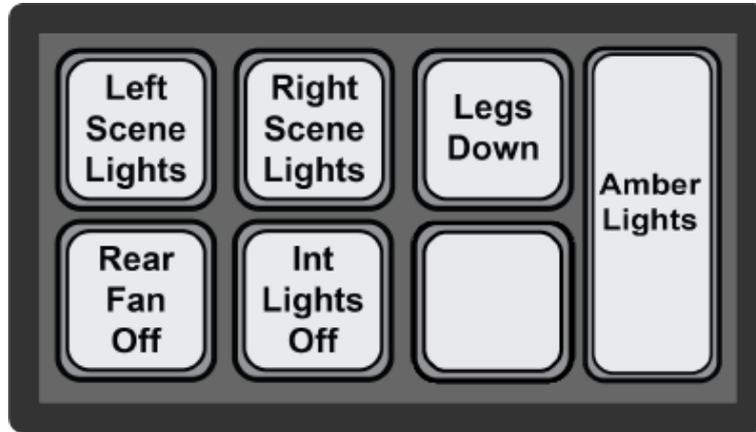
**Note:** All references in this document to left-hand and right-hand sides of the vehicle are taken from the driver's perspective.



# 1 Control Panels

## 1.1 Control Panel (Cab)

The cab control panel is located on the dashboard.



### 1.1.1 Left Scene Lights

Operates the left-hand side roof-mounted scene lights; they can also be operated from the control panel in the rear of the vehicle. The switch illuminates yellow when the lights are off and red when they are on.



### 1.1.2 Right Scene Lights

Operates the right-hand side roof-mounted scene light; they can also be operated from the control panel in the rear of the vehicle. The switch illuminates yellow when the lights are off and red when they are on.



### 1.1.3 Legs Down

The legs down indicator flashes red when one or more stabiliser legs are lowered. There is also an audible warning if a leg or legs are lowered.



### 1.1.4 Rear Fan Off

Turns the fans off in the rear of the vehicle; the switch is illuminated yellow when the fans are off and green when they are active.



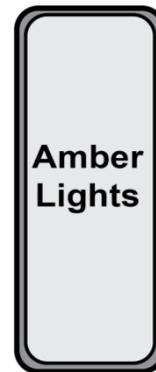
### 1.1.5 Int. Lights Off

Turns all interior lights off; the switch is illuminated yellow if any interior lights are on.



**1.1.6 Amber Lights**

The vehicle is fitted with eight amber LED strobes; they are mounted high level above the windscreen, rear doors and each side of the vehicle. The switch is illuminated yellow when the amber lights are off and red when they are on.



**1.2 Wellbeing Area Control Panel**

The Wellbeing area control panel is located on the front bulkhead. All lights are illuminated green at rest.



**1.2.1 Right Scene Lights**

Operates the right-hand side roof-mounted scene light; they can also be operated from the control panel in the vehicle cab. The switch illuminates red when the lights are on.



**1.2.2 Light Scroll**

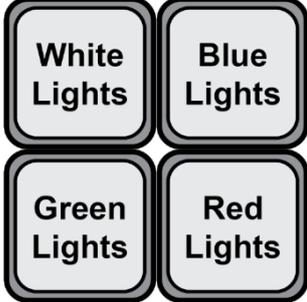
The Light Scroll button cycles the blue, green and red lights at ten second intervals; the button illuminates red when active.



**1.2.3 Centre Area Lights**

Operates the light in the consultant area of the vehicle; the switch is illuminates red when the lights are on.



<p><b>1.2.4 Left Scene Lights</b></p> <p>Operates the left-hand side roof-mounted scene light; they can also be operated from the control panel in the vehicle cab. The switch illuminates red when the lights are on.</p>	
<p><b>1.2.5 White/Blue/Green/Red Lights</b></p> <p>Operates interior coloured light in the wellbeing section of the vehicle. The switches are illuminated yellow when the light is off. The switches illuminate with the appropriate colour when the light is on.</p> <p>Only one colour can be operated at a time.</p>	
<p><b>1.2.6 Mood Lighting</b></p> <p>Ceiling lights are fitted in wellbeing area of the vehicle; they can be toggled between white/blue/green/red; they are controlled with the control panel on the bulkhead.</p>	
<p><b>1.3 Power Panel</b></p> <p>The power control panel is in Wellbeing area on the front bulkhead. It is used to provide the appropriate amount of power to the 230V AC equipment in the vehicle:</p> <ul style="list-style-type: none"> <li>• <b>POWER</b> provides 1.2 kW</li> <li>• <b>LOW IDLE</b> provides 2.0 kW</li> <li>• <b>HIGH IDLE</b> provides 3.5 kW</li> </ul> <p>The buttons are illuminated green, when a power mode is selected; it turns red and overrides the mode that was previously selected.</p>	

### 1.4 Power Display

The power display is mounted next the power panel on the front bulkhead, it monitors and displays the power consumption.



### 1.5 Eberspächer Control

The Eberspächer thermostat control fitted on the front bulkhead for the heater.



## 2 Additional Equipment (Wellbeing Area)

### 2.1 Padded Seating

'L' shaped padded seating with storage below are located in the Wellbeing area against the front bulkhead and the offside of the vehicle.



### 2.2 Refrigerator

A 12v refrigerator with a removable ice box is located in the Wellbeing area on the nearside of the vehicle to the rear of the sliding door.



### 2.3 Hot Water

A 4 litre Transvend hot water dispenser is located above the refrigerator in the Wellbeing section of the vehicle.



### 2.4 Air Condition Unit

An air conditioning unit is fitted in the roof of the vehicle in the Wellbeing area; it is operated with a dedicated remote control.



**2.5 Storage Cupboard**

A storage cupboard is located above the refrigerator in the Wellbeing section of the vehicle.

**2.6 Grab Handle**

A yellow grab handle to aid in entry and exit of the vehicle.

**2.7 230v Power Socket**

A double 230v socket to power equipment inside the vehicle only.

**2.8 12v & USB Power Socket**

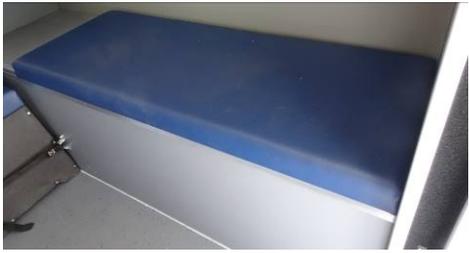
A 12v power socket and a twin 5v USB power socket (Non data) to charge personnel portable devices.

**2.9 Centre Bulkhead Door**

A sliding door installed in the centre bulkhead separating the consultant room from the Wellbeing section.



### 3 Additional Equipment (Consultant Area)

<p><b>3.1 Padded Bench Seat</b></p> <p>A padded bench seat is provided on each side of the consultant area.</p>	
<p><b>3.2 Full Width Shelf</b></p> <p>A full width shelf is located across the rear bulkhead adjacent to a power conduit. The conduit incorporates several power outlets, light and fan controls; the fan controls operate with a four second delay.</p>	
<p><b>3.3 Filing Cabinet</b></p> <p>An A4 size filing cabinet with sliding drawer located beneath the desk in the consultant area.</p>	
<p><b>3.4 Stool</b></p> <p>A portable stool with padded lid and storage below for nurses' use in the consultant area. This must be secured when in transit.</p>	
<p><b>3.5 230v Power Sockets (x2)</b></p> <p>Two double 230v sockets in the electric conduit to power the equipment inside the vehicle only.</p>	
<p><b>3.6 12v &amp; USB Power Sockets (x2)</b></p> <p>Two 12v power socket and a twin 5v USB power socket (Non data) to charge personnel portable devices.</p>	

**3.7 Switch Panel**

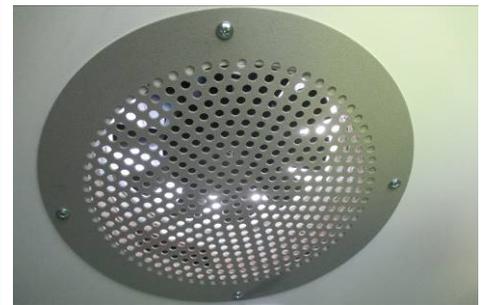
A switch panel for interior lights and the fan control is fitted in the electric conduit on the rear bulkhead.

**3.8 Lighting**

Ceiling LED lights are fitted in consultant area of the vehicle; the interior light switch will toggle between on/off and dim facility.

**3.9 Fan**

The roof fan is controlled by the Intake and Extract buttons on the switch panel.



## 4 Additional Equipment (Cab & External)

<p><b>4.1 External Lights</b></p> <p>The vehicle is fitted with various external lights; they are operated from the cab or Wellbeing area control panels.</p>	
<p><b>4.1.1 Amber Lights</b></p> <p>The vehicle is fitted with eight amber LED lights, mounted to give 360° visibility; they are operated from the cab control panel.</p>	
<p><b>4.1.2 Side Scene Lights</b></p> <p>Four scene lights are mounted on each side of the vehicle front and rear, adjacent to the amber lights. They are operated from either the cab or Wellbeing area control panels.</p>	
<p><b>4.1.3 Rear Scene Lights</b></p> <p>Two additional scene lights are mounted on the inside of the rear doors; they only operated when the scene switch is activated and the doors are open.</p>	
<p><b>4.1.4 Rear Section Lights</b></p> <p>The lights in the rear stowage section of the vehicle are activated by the rear door pin switch.</p>	
<p><b>4.2 Stabilisers</b></p> <p>The vehicle has a manually operated stabiliser leg in each corner. A warning light illuminates on the cab control panel if the leg(s) are down.</p> <p>An audible warning also sounds if the leg(s) are down.</p>	
<p><b>4.3 Automatic Step</b></p> <p>An automatic step extends when the side door is opened and retracts when it closes.</p>	

**4.4 Reverse Monitor**

A reverse camera and mirror monitor system are installed to aid rear view when reverse gear is selected. A reverse alarm is also activated when reverse gear is selected, this is inhibited for night time use.



**4.5 Rear Step**

A Pro Safety rear step with sensors.



**4.6 Eberspächer Heater**

An Eberspächer heater is fitted below the vehicle floor level; it runs off the vehicle's diesel fuel tank. It is controlled by the heater thermostat on the front bulkhead.



## 5 Auxiliary Power

### 5.1 230V Power System

The vehicle is fitted with:

- A 3.5kW on board power system
- 16A mains inlet unit and shore line
- An isolation transformer
- An automatic 230V changeover switch
- Various circuit protection devices
- A battery charger for the cranking and auxiliary batteries
- 230V power outlets

The above items, except for the power outlets are located in the locked cupboard in the rear section of the vehicle.

#### 5.1.1 3.5KW On Board Power System

A Whisper Power belt driven 3.5 kW generator provides 230V AC to the isolation transformer.



#### 5.1.2 16A Mains Inlet Unit and Shore Line

The 16A 230V AV power inlet can be connected to a mains power outlet and provides 230V AC power to the isolation transformer.



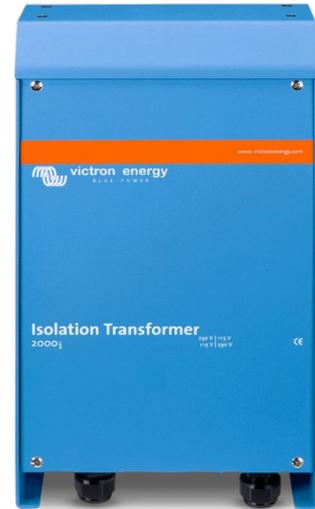
#### 5.1.3 Automatic 230V Changeover Switch

The automatic 230V changeover switch will select the appropriate power source for the isolation transformer. Labelled DB 4.



**5.1.4 Isolation Transformer**

A Victron Energy isolation transformer receives 230V AC power from either the 3.5kW generator or the 16A 230V AC mains inlet. The transformer supplies power to all 230V AC appliances and 230V AC power outlets in the vehicle.



**5.1.5 Circuit Protection**

The 3.5 kW generator and the 16A mains inlet are protected by their own trip switches.

Labelled as follows:

DB 1 Input from Landline

DB 2 Output to DB 5

DB 3 Input from Generator

DB 4 Change Over Contactor

DB 5 Battery Charge, Sockets & A/C

The Isolation transformer supplies 230V AC power through a consumer unit.



**5.1.6 A Battery Charger**

A 230V AC powered battery charge is used to charge the 12V vehicle and auxiliary batteries.



**5.1.7 230V Power Outlets**

The vehicle has several 230v power outlets located in the consultants and wellbeing areas.

**5.2 12V Power System**

The vehicle is fitted with:

- A 120 Ah auxiliary battery
- 12V and 5V power outlets

**5.2.1 120 Ah Auxiliary Battery**

The auxiliary battery is located rear of the vehicle below 230V system components.

**5.2.2 5V/12V Power Outlets**

The vehicle has six 12V and 5V power outlets located in the consultants and wellbeing areas.

