

# OPERATOR'S GUIDE



## ***INFO CENTRE 2***



Innovative Vehicle Solutions



## Notes on the use of this manual

This manual has been designed to assist personnel in satisfactorily operating the Haldex Info Centre 2 on trailers.

This manual is based on the Info Centre 2 using software release G548 (G585 with TPMS from mid-2011) or higher. If previous versions of software are being used, some of the functionality and menus will be greyed out and not usable. Refer to page 37 to check the installed software release.

The intention has been to illustrate the various areas of operation. It is expected that this manual will be in possession of the appropriate person throughout their 'training' and 'experience' and that the manual will be used as:

- a) A teaching aid following supervision of a Haldex engineer.
- b) A reminder of the correct operating procedure of the Haldex Info Centre 2.

- › Use appropriate spare-parts documentation when obtaining spare parts.
- › Use only genuine Haldex parts in repairs.
- › Due to continuous development the right is reserved to alter the specification without notice.
- › No legal rights can be derived from the contents of the manual.
- › Duplication, translation and reprinting are prohibited without permission from Haldex Brake Products.

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## Introduction

The Info Centre 2 is a side of trailer mounted diagnostic unit used for readout of odometer, diagnostic codes and other information as available in the EB+ Electronic Control Unit (all current features available when an EBS Gen2 is programmed and using C497 / 498 / 499 or when an EBS Gen3 is programmed and using E653 or when an U-ABS is programmed and using A650 or higher level of software).

The Info Centre 2 is connected permanently to the ECU's diagnostic 'DIAG' connection. While the ECU is powered from its normal source (ISO7638 permanent) information is transferred to the Info Centre's memory, which can be recalled. Power is supplied from the vehicle system via the ECU diagnostics connector.

Info Centre 2 comprises an LCD (Liquid Crystal Display) and three buttons marked with up/down arrows and an OK button.

Info Centre 2 also has an internal battery which allows readout of information (including fault indication) when the trailer is uncoupled and unpowered.

With the internal battery, the Info Centre 2 is not ADR approved (for further information on ADR approval see page 77).





## Front panel operation



OK Button

This button is used to:

- Switch 'ON' the Info Centre 2 Unit
- Enter into sub menus
- Enter / confirm Info Centre 2 actions
- Enter / confirm Info Centre 2 value changes
- Enter / confirm Info Centre 2 configuration changes



Up Arrow

This button is used to:

- Switch 'ON' the info Centre 2 Unit
- Scroll up the main & sub menus
- Select Info Centre 2 configuration units
- Select numerical numbers



Down Arrow

This button is used to:

- Switch 'ON' the info Centre 2 Unit
- Scroll down the main & sub menus
- Select info centre configuration units
- Select numerical numbers



Service LED

This indicates the status of the Info Centre and EB+ (see page 6)



## Service LED



Service LED

The service LED is used to indicate the status of the Info Centre 2 and EB+.

Its operation can be configured using the LED settings menu (see page 69). Indicates that active DTCs are present or that the service interval period has expired.



Flashing "on"



Flashing "off"

The light will flash for 10 minutes after the power is removed, or after the info centre switches itself 'off'.



Service LED off

Indicates that the Info Centre 2 is OK (only when running on its internal battery) or that the EB+ power is connected, and it is configured to show faults (see page 69).





## Function bar

The function bar is used in the sub menus to extend the actions of the, ,  and  buttons.

Example:



 is used to select imperial units (mi)     is used to select metric units (Km)



## Please wait display

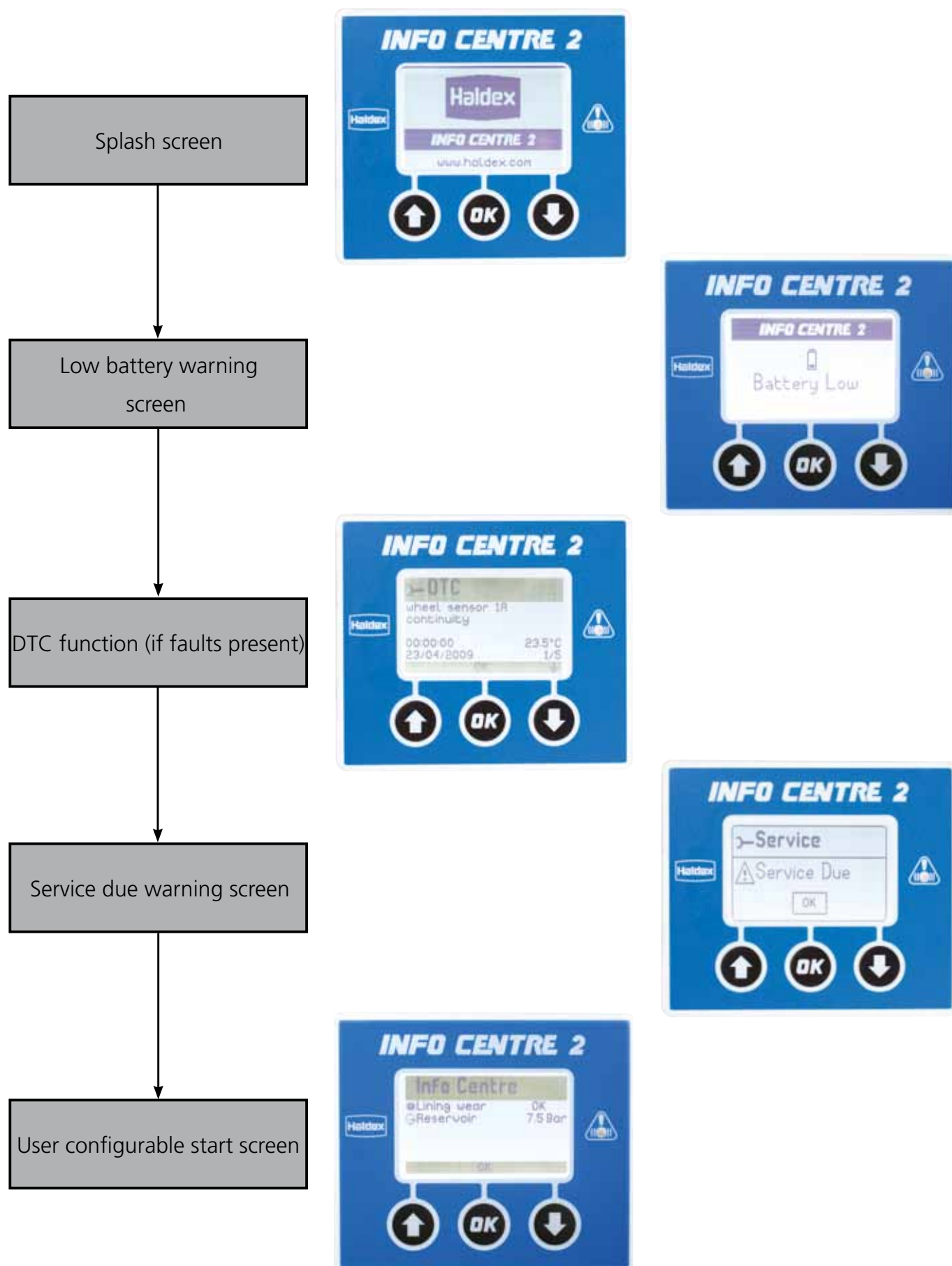


International standards for diagnostic commands demand a minimum of 10 seconds wait between diagnostic sessions.

The please wait display indicates that the Info Centre 2 wants to start a new diagnostic session within the 10 seconds. Once the 10 seconds has elapsed, the menu system will again become active.

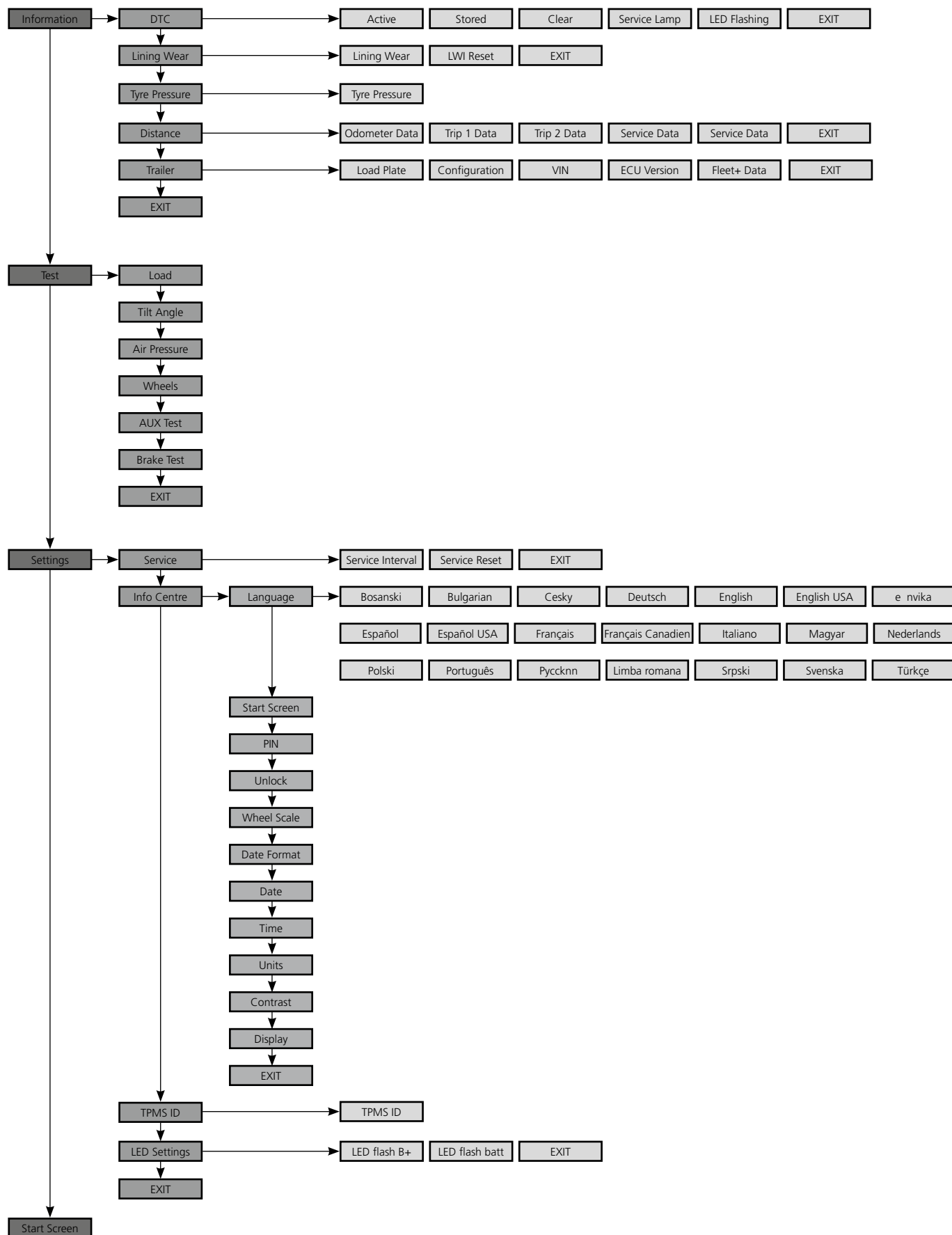


# Info Centre menu overview





# EBS menu



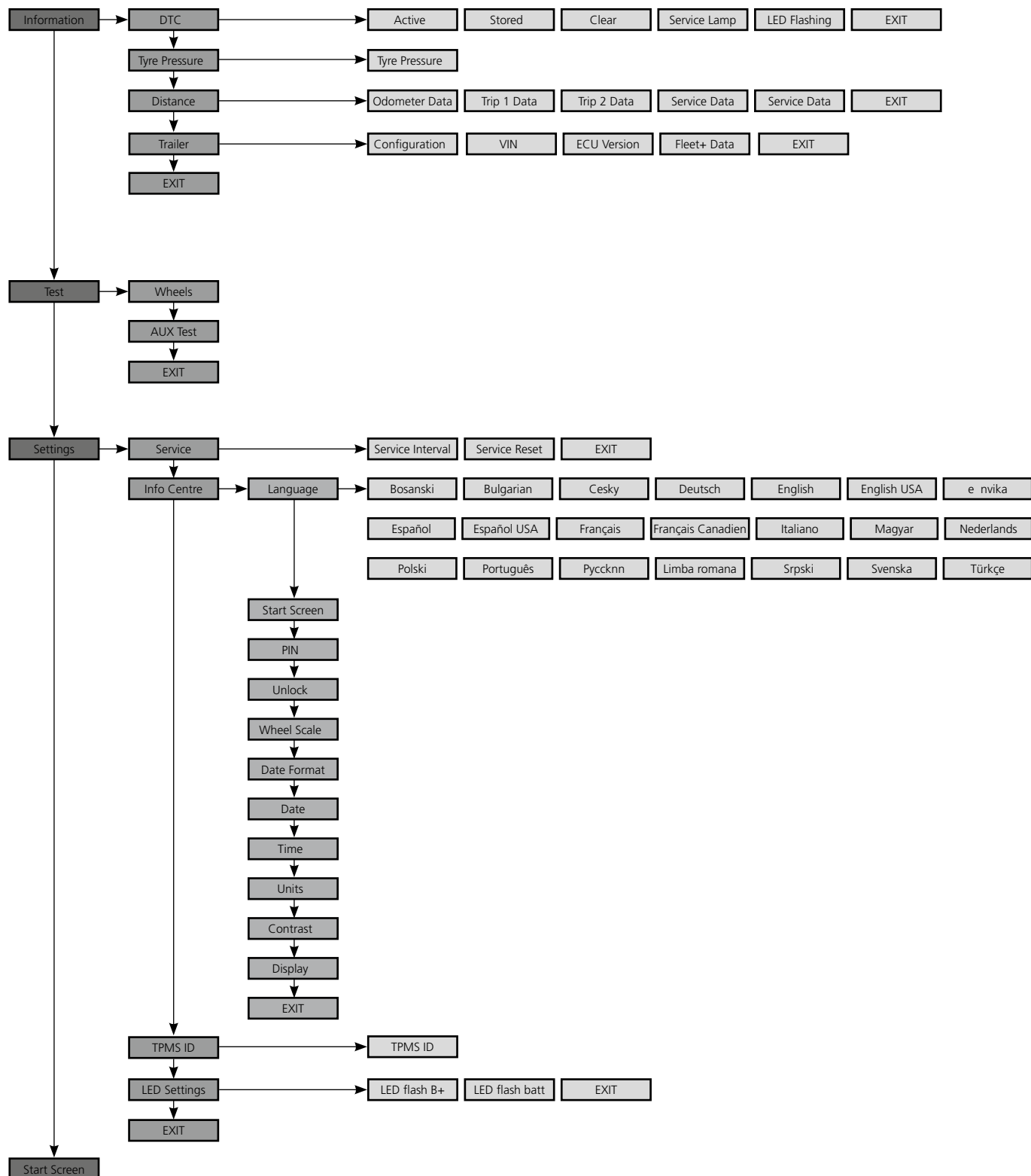


## U-ABS menu

When connected to an U-ABS, the Info Centre 2 will not provide the same functions as when it is connected to an EBS.

Examples:

- › The information menu will not display the Lining Wear System.
- › On the trailer menu, it will not be possible to access the load plate information.
- › The load, tilt angle, air pressure and brake test functions will not be active in the test menu.





## Password protection



All of the screens which allow the user to change any of the data fields are password protected.

The user may enter the password using the unlock function in the settings menu (see page 58).

Note: as standard the Info Centre 2 will be supplied with the PIN set to 0123.

The Info Centre 2 will stay unlocked whilst in use but will re-lock if it is idle for 1 minute in a menu or 2 minutes in a function.

If the user enters a function whilst the Info Centre 2 is locked they will be prompted to enter the PIN as per the unlock function in the settings menu.



## Information menu

DTC:

Diagnostic Trouble Codes (see page 14).

Lining wear:

Displays lining wear status (OK or service).

This menu will be greyed out if it is not configured in the EB+ using DIAG+ (see page 21).

Tyre pressure:

The Tyre Pressure Monitoring System constantly measures the air pressure and temperature in the trailer tyres (see page 25).

Distance:

Displays the mileages stored in the EB+.

It can be configured to display in miles or Km (see page 31).

Trailer:

Trailer and EB+ information (see page 33).

Exit:

Return back to information menu.





## Information / DTC

**Active [8]:**

Displays up to 8 active DTCs (Diagnostic Trouble Codes).

**Stored [8]:**

Displays up to 8 stored DTCs.

**Clear:**

Clears all DTCs from the EB+  
Confirmation of this action is required.

**Service lamp:**

Displays the reason for the flashing trailer warning lamp.

**LED flashing:**

Displays the reason for the flashing Info Centre 2 service LED.

**Exit:**

Return back to the information menu.



## Information / DTC / Active

Displays up to 8 active DTCs.



No active DTCs present.






Displays up to 8 Active DTCs.

Information displayed:

AUX4	Fault condition.
10:35	The time the fault condition was stored.
05/01/2011	The date the fault condition was stored.
26.2°C	The temperature the fault condition was stored.



Use the  and  buttons to navigate through the Diagnostic Trouble Codes.

Use the  button to exit the active menu.



## Information / DTC / Stored



Displays up to 8 stored DTCs.

Contains the history of repaired active faults.

All active faults are transferred into the stored memory once they are corrected.



No stored DTCs present.



Displays up to 8 stored DTCs.



Information displayed:

AUX4            Fault condition.

10:35           The time the fault condition was stored.

05/01/2011    The date the fault condition was stored.

26.2°C          The temperature the fault condition was stored.

Use the  and  buttons to navigate through the Diagnostic Trouble Codes.


Use the  button to exit the Stored DTC menu.




## Information / DTC / Clear

Clears all the DTCs from the EB+, a confirmation of action using the password is required.



Use the  button to clear the stored DTCs.

Use the  button to exit the clear DTC menu without clearing the stored fault codes.





## Information / DTC / Service lamp



Displays the reason for the flashing trailer warning lamp.



This indicates that there are no faults present.



This indicates that there is a DTC fault present.



## Information / DTC / LED flashing

Displays the reason for the flashing Info Centre 2 service LED.



This indicates that there are no faults present.



This indicates that there is a DTC fault present.








## Information / DTC / Exit



Returns back to the information menu.

Use the  and  buttons to highlight the exit option.

Use the  button to return back to the information menu.



## Information / Lining wear

### Lining wear:

Displays the brake lining wear status (OK or service) of the trailer.

This menu will be greyed out if it is not configured in the EB+ using DIAG+

### Status:

Displays the trailer brake lining wear condition.

### LWI Reset:

Used to reset the lining wear status indicator following the replacement of the brake linings.

### Exit:

Returns back to the information menu.





## Information / Lining wear / Status




Displays the trailer brake lining wear condition.



Brake lining wear is ok.  
No service action is required.



Service action is required.  
Brake lining wear is not ok.  
Brake linings need replacing.

Use the  button to return back to the information menu.



## Information / Lining wear / LWI reset


Used to reset the lining wear indicator (LWI) following the replacement of the brake linings.

Before using the reset ensure that the EB+ system has been switched 'OFF', then switched 'ON' and wait for the completion of the 'blow down' cycle.

The PIN will need to be entered before commencing (see page 57).



Use the  button to reset the LWI memory.

Use the  button to exit the LWI Reset menu without resetting the LWI memory.

Note:

- › Resetting the LWI memory will cause the EB+ to power cycle and the Info Centre 2 to return to its start menu.
- › Check the status of the trailer brake lining wear using the lining wear menu following the replacement of the brake linings (i.e. OK or service).








## Information / Lining wear / Exit



Return to the information menu.

Use the  and  buttons to highlight the exit option.

Use the  button to return back to the information menu.



## Information / Tyre pressure

The Tyre Pressure Monitoring System constantly measures the air pressure and temperature in the trailer tyres.



### Key

- 1** Pressure and temperature of highlighted tyre e.g. Axle 1 left
- 2** Trailer king pin
- 3** Tab key
- 4** Function bar
- 5** Tyre data key







The trailer and TPMS configuration are setup using DIAG+

Trailer configuration examples:



### Tri-axle trailer

Individual tyre pressures will be displayed.



### Twin wheeled tri-axle trailer

Individual tyre pressures will not be displayed on this screen, the tyre information is displayed in the sub menu via the tyre data key.




### Multi-axle trailer

Individual tyre pressures will not be displayed on this screen, the tyre information is displayed in the sub menu via the tyre data key.

\*Spare wheel



## Displaying individual tyre information

Use the  button to move and highlight individual tyres.

Use the  button to display the highlighted tyre data.

Information displayed:



OC0543A1 Wheel Unit Sensor ID


8.04 Bar Tyre pressure


35°C Tyre temperature

Axle 1 Axle nearest to the king pin

Left Left tyre on the axle looking towards the king pin.

Whilst in the information menu use the  and  buttons to scroll and display other fitted tyre information.

Use the  button to return back to the graphical display.

Use the  button to return back to the information menu.





## Tyre fault condition examples:

No signal from TPMS wheel unit sensor



Use the button to move and highlight the faulty tyre.

Use the button to display the highlighted tyre data.



Tyre pressure low warning



Use the button to move and highlight the faulty tyre.

Use the button to display the highlighted tyre data.



Tyre temperature high warning



Use the button to move and highlight the faulty tyre.

Use the button to display the highlighted tyre data.



## Key


- No signal received yet from this tyre.
- Faulty tyre




## Trailer and wheel configuration examples

### Tyre position on trailer




Use the  button to display the highlighted tyre data.




Use the  button to display the highlighted tyre data.



Use the  button to display the highlighted tyre data.



Use the  button to display the highlighted tyre data.

### Tyre data





## TPMS start screen



## Key

- 1 Time and date selected tyre
- 2 Selected tyre
- 3 Service LED
- 4 Tab key

Tyre pressure information screen:

The tyre pressure information screen is used to display historical journey fault information.

Service LED      Flashes to indicate a TPMS fault must be configured (see page 69).

Time and date      Time and date of the last recorded data

Tab key      Used to select the faulty tyre

There are two modes of operation:

- › The screen will be displayed in the Info Centre 2 start screen section during power-up following a problem during the last journey. Faulty tyre(s) will be highlighted displaying recorded data. The faulty tyre can be selected using the tab key and the stored data will be displayed.
- › The screen can be set to be displayed as the start screen (see page 56 for instructions). Once configured the information screen will be displayed every time the Info Centre 2 is powered.



## Information / Distance

### Odometer:

Displays the mileage that is stored in the EB+.

It can be configured to display in miles or Km.

### Trip 1:

Displays the mileage recorded by the EB+ since trip 1 was last reset.

It can be reset by pressing the OK (clear) button and following the screen prompts.

### Trip 2:

Displays the mileage recorded by the EB+ since trip 2 was last reset.

It can be reset by pressing the OK (clear) button and following the screen prompts.







Service:

Displays the distance (Miles or Km) until the next service.



Service:

Displays the number of days until the next service.



Exit:

Press the **OK** button to return to the information menu.



## Information / Trailer

### Load plate:

Displays the EB+ load plate information (see page 34).

### Configuration:

Shows a graphic display of the EB+ configuration (see page 35).

### VIN:

Displays the VIN from the EB+ (Diag+programmable)

Displays the OEM from the EB+ (Diag+ programmable)  
(see page 36)

### ECU version:

ECU version      Displays the EB+ software version

Serial N°        Displays the EB+ serial number

IC version        Displays the Info Centre 2 software  
version (see page 37)

### Fleet+ data:

The Fleet+ PC program enables the operator to view trailer information.

The Info Centre 2 extracts summary data to provide an understanding of recorded events (see page 38).

### Exit:

Return to the information menu (see page 40).







## Information / Trailer / Load plate



Load plate:

Displays the EB+ load plate information.

Use the  and  arrows to navigate up and down the load plate contents.

Exit using the  button.



Load plate settings:

The EB+ load plate settings are setup using DIAG+. Refer to DIAG+ user guide for a full description of each setting.

susp unladen	PP1 laden
susp laden	PP2 control
PO threshold	PP2 laden
PD control	PP3 control
PD laden	PP3 laden
PP1 control	PP3 unladen

Load plate displays:

Depending on the EB+ configuration, the Info Centre 2 will automatically change its load plate display. Each configuration contains 3 x pages for each load plate.

System load	Plate name
EB+ 2M	Load plate
EB+ 3M	Master slave




## Information / Trailer / Configuration

Configuration:

Shows a graphic display of the EB+ configuration.



Shows a graphic display of the EB+ brake configuration.

Press the  button to return to the trailer menu.



Available configuration options:

› REV or Non REV

and any of the following:

- › LSV on 24N
- › Lift on move
- › Axle load sum
- › 180° Orientation
- › DAR (Dolly Axle Regulation)



## Information / Trailer / VIN



VIN:

Displays the VIN from the EB+ (DIAG+ programmable)

Displays the OEM from the EB+ (DIAG+ programmable)



Press the  button to return to the trailer menu.



## Information / Trailer / ECU version

ECU version:

ECU version	Displays the EB+ software version
Serial N°	Displays the EB+ serial number
IC version	Displays the Info Centre 2 software version





## Information / Trailer / Fleet+ data



The Fleet+ PC program enables the operator to view trailer information. The Info Centre 2 extracts summary data to provide an understanding of recorded events.



### Fleet+ data

Info Centre 2 downloading latest Fleet+ data from the EBS.



### Trips

A trip is recorded from when the vehicle achieves 10 km/h and a 1km distance until ISO power is switched off.

Displayed information:

ISO km	Number of km when ISO powered.
ISO +24N km	Estimate of total km when ISO and 24N powered.

Trips	Number of vehicle journeys meeting the trip criteria.
-------	---



## Snapshots

A snapshot is recorded when certain conditions are triggered.

Displayed information:

DTC	Number of new trouble codes.
Over speed	Stability number of roll stability braking interventions.
Over load	Number of trips where programmed speed threshold is exceeded (default 100 km/h).
Reservoir	Number of trips where the vehicle was overloaded (default 130%).
B+	Number of trips where the reservoir was above set value (default 9.75 bar).
B+	Number of times that excessive supply voltage was measured (default 32V).



## Events

Counters are kept for certain events.

Displayed information:

24N brake	Number of 24N brake applications.
ISO brake	Number of ISO brake applications.
ABS	Number of modulation events.
Stability	Number of stability interventions.



## Activations

Counters are kept for the activation of each auxiliary.

Displayed information:

AUX 1 drive	e.g. Number of COLAS® operations or the
AUX 2 drive	number of ILAS® operations.
AUX 3 drive	
AUX 4 analogue e.g.	Number of times a switch on a GPI is activated.
AUX 5 analogue	







## Information / Trailer / Exit



Exit:  
Return to the main menu.



Use the  and  buttons to highlight the exit option.



Use the  button to return back to the main menu.



## Test menu

### Load:

Displays the current axle load (see page 42).

### Tilt angle:

Displays the current lean angle of the trailer (see page 43).

### Air pressure:

Displays the current trailer air pressures (see page 44).

### Wheels:

Displays the current trailer wheel speeds (see page 45).

### AUX test:

This menu is used to switch 'ON' or 'OFF' the EB+ auxiliary functions (see page 46).

### Brake test:

Used to switch 'ON' or 'OFF' the EB+ load sensing function (see page 47).

### Exit:

Return to main menu.





## Test / Load



Load:

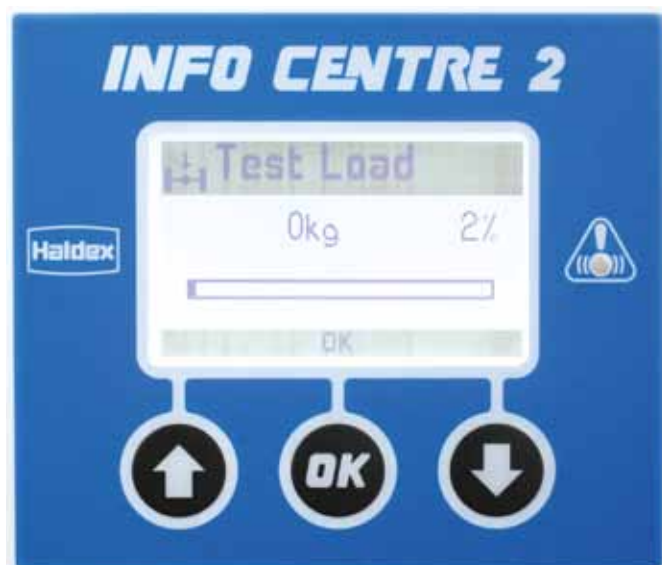
Displays the current trailer load.

Display units:


kg or lbs as configured.

%

Bar chart



The accuracy of the load readout is dependent on correct information setup during the programming of the ECU using DIAG+.

Press the  button to return to the test menu.



## Test / Tilt angle

Tilt angle:

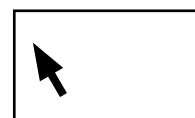
Shows the angle of the trailer in degrees as read from the EB+.

It displays the angle in two modes:

- › Numerical readout
- › Arrow indication (see below)



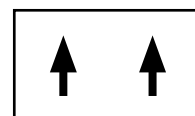
Indicates that the trailer is leaning to the left (as viewed from the rear of the trailer) by more than 6°.



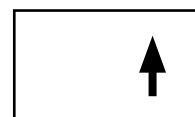
Indicates that the trailer is vertical (as viewed from the rear of the trailer) by less than 6°.



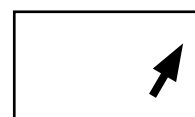
Indicates that the trailer is vertical (as viewed from the rear of the trailer) greater than -2° & less than +2°.



Indicates that the trailer is vertical (as viewed from the rear of the trailer) by less than 6°.



Indicates that the trailer is leaning to the right (as viewed from the rear of the trailer) by more than 6°.



Press the  button to exit.



## Test / Air pressure





Air pressure:


Displays the EB+ air pressures in either PSI or bar depending on the EB+ configuration.



The bar chart will display values up to a maximum of 8 bar.



Use the  and  arrows to navigate up and down the air pressure contents.

Exit using the  button.

## Displayed EB+ system pressures

3M Full Trailer	3M Semi Trailer	2M	1M
Reservoir pressure	Reservoir pressure	Reservoir pressure	Reservoir pressure
Control pressure	Control pressure	Control pressure	Control pressure
ISO demand pressure	ISO demand pressure	ISO demand pressure	ISO demand pressure
Master suspension pressure	Suspension pressure	Suspension pressure	Suspension pressure
Slave suspension pressure	Delivery pressure 21	Delivery pressure 21	Delivery pressure 2
Delivery pressure 21	Delivery pressure 22	Delivery pressure 22	--
Delivery pressure 22	Delivery pressure 2	--	--
Delivery pressure 2	--	--	--




## Test / Wheels

### Wheels:

Displays the current trailer wheel speeds in either Kilometers (maximum of 20 Km/h displayed) or miles per hour depending on the EB+ configuration.



Press the  button to return to the test menu.





## Test / AUX test



AUX test:

This menu is used to switch 'ON' or 'OFF' the EB+ auxiliary functions.

The PIN will need to be entered before commencing (see page 58).



Use the  and  arrows to navigate up and down the AUX 1,2 and 3.


Press the  button to switch between the commands

Valid commands:

- |     |   |  |
|-----|---|--|
| ON  | - | Auxiliary 'ON'                             |
| OFF | - | Auxiliary 'OFF'                            |
| ECU | - | Return the auxiliary device to EB+ control |

Notes:

- › The auxiliary test function will default back to EB+ control when you exit from this menu.
- › More than one auxiliary can be 'ON' at the same time.

Press the  button to return to the test menu.



## Test / Brake test

Brake test:


Used to switch 'ON' or 'OFF' the EB+ load sensing function.



Use the  arrow to switch 'OFF' the EB+ load sensing function.



Use the  arrow to switch 'ON' the EB+ load sensing function.

Press the  button to return to the test menu and switches 'ON' the EB+ load sensing function.





## Settings menu



### Service:

Used to set and reset the EB+ service interval (see page 49).

### Info Centre:

Info Centre 2 settings menu (see page 53).

### TPMS ID:

Displays a complete list of configured wheels and sensor ID's and allows the operator to swap over wheel sensors (see page 67).

### LED settings:

Used to configure the action of the service LED (see page 69).

### Exit:

Return to main menu.



## Settings / Service

### Interval:

Used for altering the EB+ service indicator.

Both days and distance (miles or km) can be altered.

The entered durations will be added to the current odometer reading and only become active when the service reset is actioned.

### Reset:

Used for resetting the EB+ service indicator.

Note: The amended duration will be the internally stored service interval.

### Exit:

Return to main menu.





## Settings / Service / Interval



Interval:



Used for altering the EB+ service indicator.


Both days and distance (miles or km) can be altered.



The entered durations will be added to the current odometer reading and only become active when the service reset is actioned.


The PIN will need to be entered before commencing (see page 58).




Use the  and  arrows to change the value of the highlighted days digits.

Once the correct value is displayed (0-366 days), use the  button to move onto the Kilometres.

Use the  and  arrows to change the value of the highlighted kilometres digits.

Once the correct value is displayed (0-250 Km), use the  button to exit.



Use the  button to exit the service interval menu without saving the data.

Use the  button to exit the Service Interval menu saving the data.

Note:

If the days and kilometres are set to zero, no service warning will be given.



## Settings / Service / Reset


### Reset:


Used for resetting the EB+ service indicator.

Note: The amended duration will be the internally stored service interval.

The PIN will need to be entered before commencing (see page 58).



Use the  button to exit the service reset menu without activating the service interval indicator settings.

Use the  button to exit the service reset menu and activating the service interval indicator settings.








## Settings / Service / Exit



Exit:

Return to the main menu.

Use the  and  buttons to highlight the exit option.

Use the  button to return back to the main menu.



## Settings / Info Centre 2

### Language:

The Info Centre 2 has multiple language options.

### Start screen:

This menu allows the user to choose Info Centre 2 functions to be displayed at start up, before the main menu.

### PIN:

A PIN is used to protect a number of the Info Centre 2 menus.

### Unlock:

Use this menu to unlock the Info Centre 2 via a valid PIN.

### Wheel scale:

Displays the EB+ wheel scale and sensor teeth settings.

### Date format:

Allows the user to set the date format.





**Date:**

The time and date stored in the Info Centre 2 are used to record the time and date at which EB+ faults occur.

**Time:**

Used to set the 24hr clock time.

**Units:**

Use to select metric or imperial units for the Info Centre 2.

**Contrast:**

Use this menu to adjust the LCD screen contrast.

**Display:**

Self test function for the Info Centre 2 display.

**Exit:**

Return to the settings menu.






## Settings / Info Centre 2 / Language

Language:

The Info Centre 2 has multiple language options.



Enter into the language menu and use the  and  arrows to navigate to the required language, and select using the  button.





## Settings / Info Centre 2 / Start screen



Start screen:

This menu allows the user to choose Info Centre 2 functions to be displayed at start up before the main menu or by selecting the 'start screen' option on the main menu.

The PIN will need to be entered before commencing (see page 58).

The user can choose 1 from 10 options available:

- › None - If selected there will be no start screen option
- › Distance
- › DTC
- › AUX
- › Axle load sum
- › Language
- › Unlock
- › Tilt angle
- › Tyre pressure
- › User defined - If selected go to user defined section below.

The user defined start screen can display up to 5 of the following items:






- |                    |                 |
|--------------------|-----------------|
| › Odometer         | › Stored DTCs   |
| › Service          | › Lining Wear   |
| › Service Interval | › Reservoir     |
| › DTC              | › Axle Load Sum |




## Settings / Info Centre 2 / PIN


A PIN is used to protect a number of the Info Centre 2 menus, as standard the Info Centre 2 will be supplied with the PIN set to 0123. If necessary this number can then be reset by the operator to any 4-digit number using the Info Centre 2 buttons.

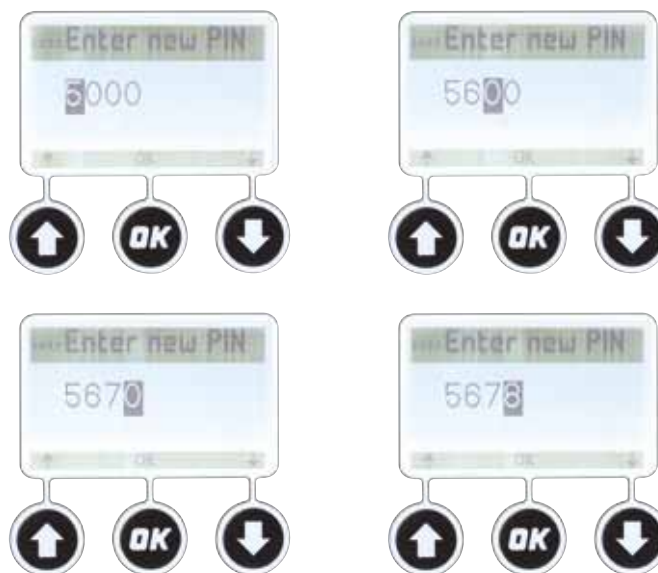
Sequence for Resetting the PIN number:

- › Enter the current PIN to unlock the Info Centre 2 (see page 58).
- › Use the  button to enter the PIN menu.
- › Use the  and  arrows to increment / decrement the digits.
- › Use the  button to move onto the next digit.
- › Use the  button to save the PIN selection.



Use the  button to save the PIN selection

or  
Use the  arrow to exit without saving the PIN selection



### Permanent PIN removal

To permanently remove the PIN function from the Info Centre 2 menus, set the PIN number to be 0000. This will stay active until an alternative PIN is entered again.





## Settings / Info Centre 2 / Unlock



### Unlock:

Use this menu to unlock the Info Centre 2 via a valid PIN.

### PIN activity:

The Info Centre PIN remains active for 1 minute in a menu.






The Info Centre PIN remains active for 2 minutes in a function.



A PIN is used to protect a number of the Info Centre 2 menus, as standard the Info Centre 2 will be supplied with the PIN set to 0123.

If necessary this number can then be reset by the operator to any 4-digit number using the Info Centre 2 buttons (see page 57).


### Sequence for Entering the PIN number:

- > Use the  button to enter the unlock menu.
- > Use the  and  arrows to increment/decrement the digits.
- > Use the  button to move onto the next digit.
- > Use the  button to confirm the PIN selection.



Use the  button to confirm the PIN selection



If any of the numbers entered into the unlock screen are wrong, the PIN Incorrect screen will be displayed. Use the  button to exit and retry.



## Settings / Info Centre 2 / Wheel scale

Wheel scale:



Displays the EB+ wheel scale and sensor teeth settings.


Odometer:

This field allows the user to fine tune the odometer scaling (odoscale), this can be in either dynamic radius (Rdyn) or turns per mile (Tpm).


The PIN will need to be entered before commencing (see page 58).




Use the  and  arrows to change the value of the highlighted digit.

Once the correct value is displayed, use the  button to move onto the next digit.



Use the  button to exit the wheel scale menu without saving the data.

Use the  button to exit the wheel scale menu saving the data.





## Settings / Info Centre 2 / Date format



Date format:

Allows the user to set the date format.

The PIN will need to be entered before commencing (see page 58).






Three options available:

dd/mm/yyyy

yyyy/mm/dd

mm/dd/yyyy

Use the  and  arrows to highlight the required option.

Once the correct option is displayed, use the  button to set and exit.



## Settings / Info Centre 2 / Date

### Date:

The time and date stored in the Info Centre 2 are used to record the time and date at which EB+ faults occur.

The PIN will need to be entered before commencing (see page 58).



Use the and arrows to change the value of the year.

Once the correct value is displayed, use the button to move onto the month.

Use the and arrows to change the value of the month.

Once the correct value is displayed, use the button to move onto the days.

Use the and arrows to change the value of the days.

Once the correct value is displayed, use the button to exit.



Use the button to exit the Date menu without saving the data.

Use the button to exit the Date menu saving the data.





## Settings / Info Centre 2 / Time






Time:




Used to set the 24 hr clock time.

The time will be set at the factory to Coordinated Universal Time (UTC).

The PIN will need to be entered before commencing (see page 58).



Use the  and  arrows to change the value of the highlighted digit. Once the correct value is displayed, use the  button to move onto the next digit.

Use the  and  arrows to change the value of the highlighted digit. Once the correct value is displayed, use the  button to enter the value and exit.



Use the  button to exit the time menu without saving the data.

Use the  button to exit the time menu saving the data.




## Settings / Info Centre 2 / Units

### Units:

Use to select metric or imperial units for the Info Centre 2.


The PIN will need to be entered before commencing (see page 58).




Use the  arrow to select miles per hour.


or


Use the  arrow to select kilometers per hour.

Once the correct unit is displayed, use the  button to move onto the next setting.

Use the  arrow to select pounds.

or


Use the  arrow to select kilograms.

Once the correct unit is displayed, use the  button to move onto the next setting.

Use the  arrow to select degrees fahrenheit.

or


Use the  arrow to select degrees centigrade.

Once the correct unit is displayed, use the  button to move onto the next setting.

Use the  arrow to select pounds per square inch.

or


Use the  arrow to select bar.

Once the correct unit is displayed, use the  button to move onto the next setting.

Use the  arrow to select turns per mile (TPM).

or

Use the  arrow to select dynamic radius (Rdyn) .

Once the correct unit is displayed, use the  button to exit.



Example for kilometers



## Settings / Info Centre 2 / Contrast






Contrast:

Use this menu to adjust the LCD screen contrast.

The PIN will need to be entered before commencing (see page 58).



Use the  and  arrows to change the contrast value.

Use the  button to exit.



## Settings / Info Centre 2 / Display

Display:

Self test function for the Info Centre 2 display.



The display will automatically scroll down.

Press any key to exit the display test.








## Settings / Info Centre 2 / Exit



Exit:

Return to the settings menu.

Use the  and  buttons to highlight the exit option.

Use the  button to return back to the settings menu.





## Settings / TPMS ID

### TPMS ID:


Displays a complete list of configured wheels and sensor ID's and allows the operator to swap over wheel sensors.



Use the  button to show the configured sensors.

Use the  and  buttons to show the configured sensors.

Use the  and  buttons to select the exit option.

Use the  button to exit back to the settings menu.





## Using the Info Centre 2 to swap TPMS wheel unit sensors



Use the and buttons to highlight the first sensor to swap.

Use the button to select the highlighted sensor.

An arrow indicates that the sensor has been selected.

If required, use the button to deselect the highlighted sensor.



Use the and buttons to highlight the second sensor to swap.

Use the button to select the highlighted sensor.

Use the button to swap the selected sensors.

Use the button to swap the selected sensors and exit.



Use the button to exit without swapping the sensors.



## Settings / LED settings

### LED settings:

Used to configure the action of the service LED.  
As default all of the flash options will be selected.

### LED flash B+:

Used to configure the action of the service LED when the Info Centre 2 is powered by the EBS.

### LED flash batt:

Used to configure the action of the Service LED when the Info Centre 2 is battery powered.

### Tilt angle threshold:

Used to set the tilt angle before the Service LED flashes.

### Exit:

Used to return back to the settings menu.



\* Service LED



# Settings / LED settings / LED flash B+



LED flash B+:

Sets the configuration of the service LED when the Info Centre 2 is powered by the EBS.

The PIN will need to be entered before commencing (see page 58).



Use the and buttons to highlight the action from the list.

Use the button to select the highlighted action.

The selected line is identified with a tick on it.

Use the button to clear the highlighted action. All number or combinations of the actions can be selected.



Exit:

Use the and buttons to highlight the exit action from the list.

Use the button to select the exit option and go to the save menu.

Press the button to save and exit to the LED settings menu.

or

Press the button to exit without saving.





# Settings / LED settings / LED flash battery



LED flash batt:

Sets the configuration of the service LED when the Info Centre 2 is battery powered.

The PIN will need to be entered before commencing (see page 58).

Use the and buttons to highlight the action from the list.



Use the button to select the highlighted action.

The selected line is identified with a tick on it.

Use the button to clear the highlighted action.



All number or combinations of the actions can be selected.



Exit:

Use the and buttons to highlight the Exit action from the list.

Use the button to select the exit option and go to the save menu.

Press the button to save and exit to the LED settings menu.

or

Press the button to exit without saving.





## Settings / LED settings / Tilt angle threshold





Tilt angle threshold:


This is the angle which is used to trigger (i.e. if selected) the service LED.

Note: The default angle is 7°


The PIN will need to be entered before commencing (see page 58).




Use the  and  buttons to set the required tilt angle threshold.

Use the  button to exit to the save menu.



Press the  button to save and exit to the LED settings.

Press the  button to exit without saving.



# Battery

The Info Centre 2 contains a replaceable battery.

The two main functions of the battery are:

- › Provide power for the operation of the Info Centre 2 when it is not connected to the EB+
- › Provide power for the service LED when it is not connected to the EB+

When power is supplied from the EBS / U-ABS, the Info Centre 2 will remain switched "ON" until this power is removed.

When power is supplied from the internal battery, the Info Centre 2 will switch "OFF" automatically after 30 seconds, if no buttons have been depressed.

When power is supplied from the EBS / U-ABS, the Info Centre 2 display screen will be brighter than if power is supplied from the battery.

After one minute, if no buttons have been depressed, the display screen will become less bright.

The battery voltage is checked each time the Info Centre 2 is switched 'ON', and it will display a battery low warning screen during its initialization phase if it is not correct (i.e. running low), this will have to be acknowledged before proceeding to the main menu options.

Note: None of the Info Centre 2 data will be lost if the battery voltage is low as it is stored in non-volatile memory.

## Battery replacement

If necessary the battery must only be replaced by an approved Haldex service centre.

Note: The ADR Info Centre 2 does not contain a battery.





## EU batteries directive 2006 / 66 / EC

Haldex Brake Products Ltd has identified the need to register, as a small producer of batteries, under the batteries directive.

The batteries directive 2006 / 66 / EC applies across the EU, but the exact requirements differ slightly in each Country.

There are two pieces of UK legislation that are derived from the EU Batteries Directive 2006 / 66 / EC. They are, namely, the batteries and accumulators (placing on the market) Regulations 2008, and the Waste Batteries and Accumulators Regulations 2009. The former relates to labelling requirements for new batteries introduced onto the market, and the latter to producer responsibility for the recycling of waste batteries.

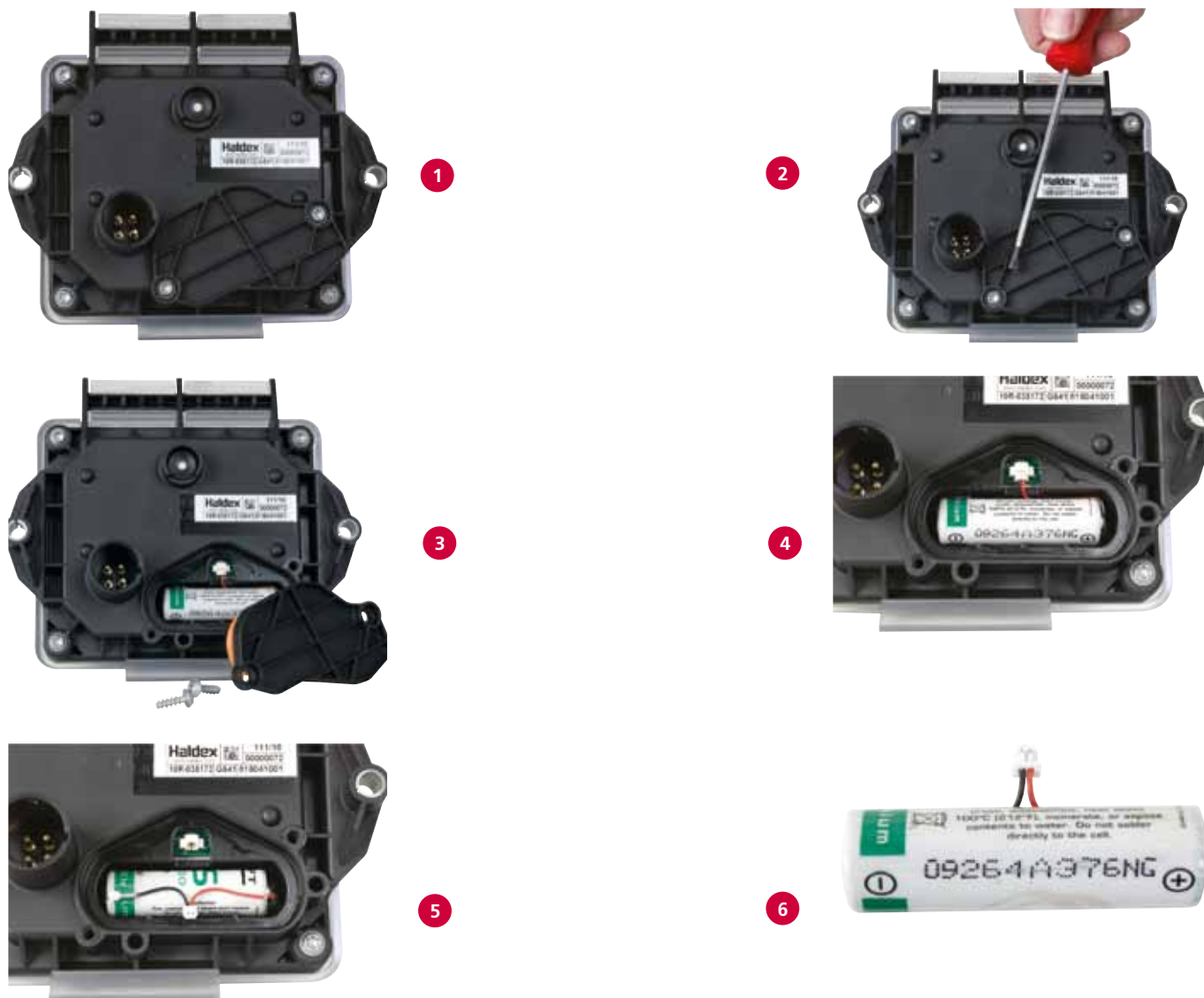
Haldex Brake Products Ltd has fulfilled its obligations under this Directive; but as an end user you must discard your old batteries, or any products containing fixed batteries, by either of the following methods:

- › At an authorised disposal point.
- › Via a registered hazardous waste contractor – in line with the hazardous waste regulations.



# Battery removal

## Battery removal procedure



- 1 Locate the two battery cover retaining screws (highlighted in yellow).
- 2 Remove the screws using a Torx T20 driver.
- 3 Pull gently to remove the cover
- 4 Locate the battery connector (highlighted in yellow)
- 5 Carefully remove the connector from the Info Centre 2
- 6 Dispose of the battery in accordance with the Batteries Directive 2006/66EC



## Alternative PIN

There is an alternative PIN that can be used in the event of the operator forgetting the current reset PIN which uses numbers taken from the trailers VIN (vehicle identification number).

Note: This is only valid if the VIN digits 14 to 17 are numbers.

### Password calculation

The alternative PIN is made up of the following:

1st digit = 3 + digit 14 of the VIN

2nd digit = 1 + digit 15 of the VIN

3rd digit = 4 + digit 16 of the VIN

4th digit = 1 + digit 17 of the VIN

Note: If the result of the password digit calculation is greater than 9, you must only use the last digit,  
e.g.  $4 + 8 = 12$  use the 2 in the new PIN.

Here is a worked example:

VIN = Haldex 80123456789

1st digit       $3 + 6$  (digit 14 of the VIN) = 9

2nd digit       $1 + 7$  (digit 15 of the VIN) = 8

3rd digit       $4 + 8$  (digit 16 of the VIN) = 12

4th digit       $1 + 9$  (digit 17 of the VIN) = 10

The alternative PIN would be 9820



## General

### Info Centre 2 flash upgrade

The Info Centre 2 software can be updated by an approved Haldex service centre.

### Maintenance of the Info Centre 2

- › The buttons should not be pushed with any sharp pointed objects.
- › Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the Info Centre.

### Info Centre 2 ADR version

The ADR version of the Info Centre 2 has no battery fitted and therefore cannot operate in the battery mode. Other functions which relate to the battery, (e.g. clock) are not available when the Info Centre 2 is powered from the EB+ system.





Haldex develops and provides reliable and innovative solutions with focus on brake and air suspension products to the global commercial vehicle industry. Listed on the Stockholm Stock Exchange, Haldex has annual sales of approximately 4 billion SEK and employs about 2,350 people.



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