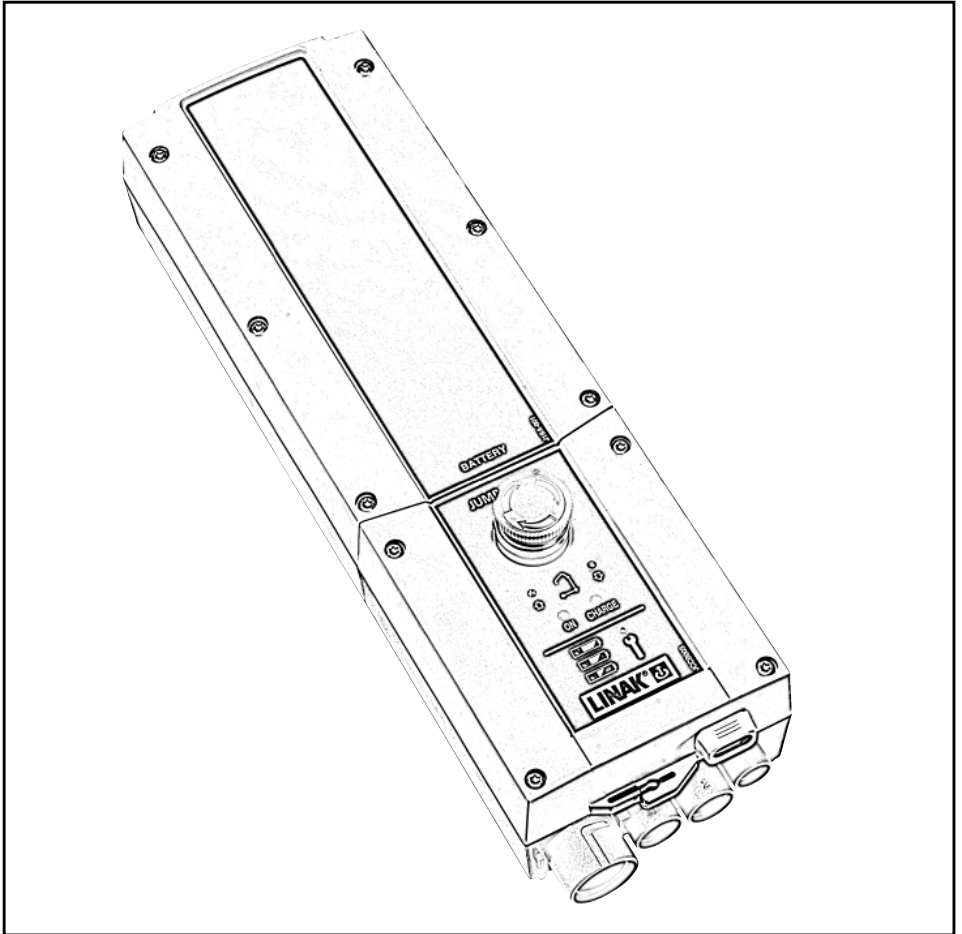


Service readout and Service Data Tool 2 with JUMBO Care



To learn more about LINAK please visit:
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Preface

We are delighted that you have chosen a product from LINAK.

Your new JUMBO Care control box has a microprocessor inside making it possible to read out service data via the Service Data Tool and via the display (if available on your control box). In this manual you can read about how to use and get the full benefit of the service function in your JUMBO Care.

If no drivers are installed on your laptop (if you never have used service data tool on your laptop before), please contact your local sales representative to get access to the IB300001 user manual where this procedure is explained.

If you experience any problems with your new JUMBO Care you are always welcome to contact your local LINAK representative who will be able to help you.

LINAK A/S

Service Intervals

What is the service interval pre-set to?

A standard JUMBO Care control box will be pre-set with a service interval of: 12 months / 8000 cycles, whichever comes first.

How do I see on the control box that it is time for service?

The notice about service need depends upon the JUMBO Care version:

- **No indicators on the front cover:** one single beep telling that it is time for service
- **Diodes on the front cover:** The service diode will light up and one single beep will tell that it is time for service
- **Display:** The display will show the service symbol and one single beep will tell that it is time for service.

When does the service time starts counting?

The service time will start to count down from the day the control box is produced.

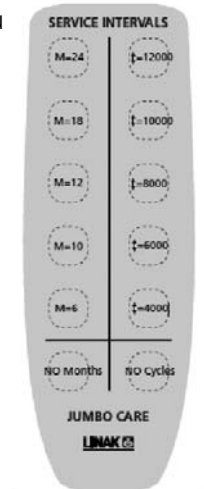
How to change to another service interval?

The service interval can be changed via a special LINAK handset (Item number HB8646V2010 + 71). To change the service interval you simply plug-in the handset in the JUMBO Care and press the button. You can choose from a number of months or cycles between services. You can also choose 'NO months' or 'NO cycles'.

E.g. Push M = 24, Push \updownarrow 10000.

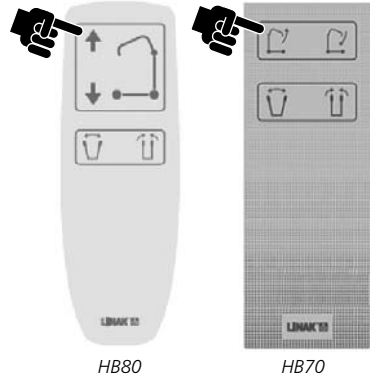
The JUMBO Care is now set to indicate service need every 24 month or at 10000 cycles whichever comes first.

After having set a different service interval the control box will provide an audio sound (as a receipt).






Read out service data on a JUMBO Care with display

When you have a JUMBO Care with display it is possible to have some basic service data on the display. To get this information on the display press the "lifting arm up" button on your LINAK hand control (short press 1/2 second).



The information that appears on the display is;

	12034	----->	Total cycles done by the lifting actuator (channel 1)
A*S	1257000	----->	Total work done by the lifting actuator (channel 1)
	7	----->	Total number of overloads (channel 1)
	90/360	----->	Days since last service/days between services

Read out service data on a laptop

Equipment needed to read out service data

When reading out service information on a laptop you need:

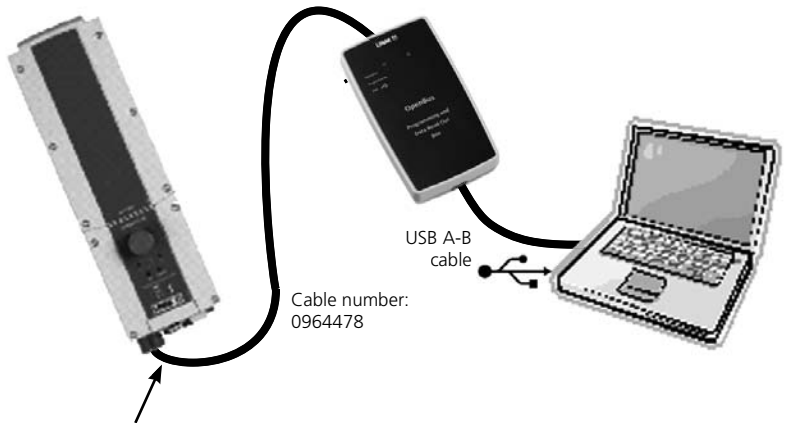
- Service data tool 2 version 1.3.4 or newer version installed on the laptop.
The software will be provided from your local LINAK sales representative.
- An OpenBus programming and data read out box (item number IB300001-00)
- A service readout cable (LINAK item number 0964478)
- One USB A-B cable

How to connect the equipment and get started

A) First of all make sure that service data tool drivers and the service data tool 2 software (version 1.3.4 or higher) is installed on your laptop. If Service Data Tool drivers and the Service Data Tool software are not installed please see the SDT2 user manual.

B) Connect the equipment as shown below.



JUMBO Care



The service read-out cable (item number 0964478) have to be connected via the HB port.

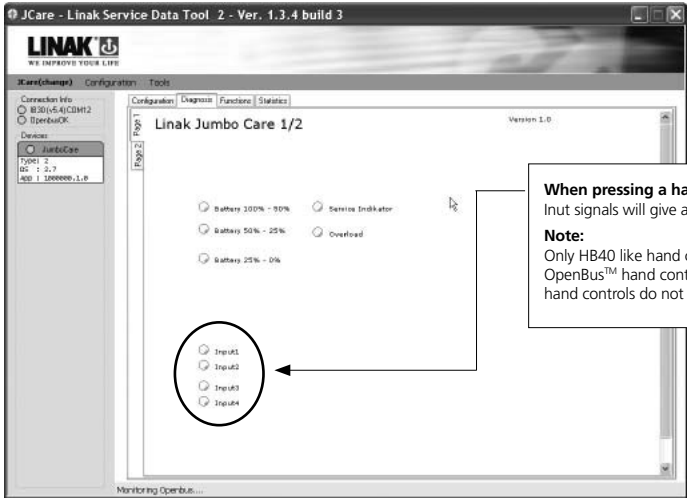
It is also possible to use a T-cable (item number 0015412) for connection of Hand control and Service data tool at the same time.

When connection is observed the red LED ("Supply8VMissing") in the current laptop window changes to green.

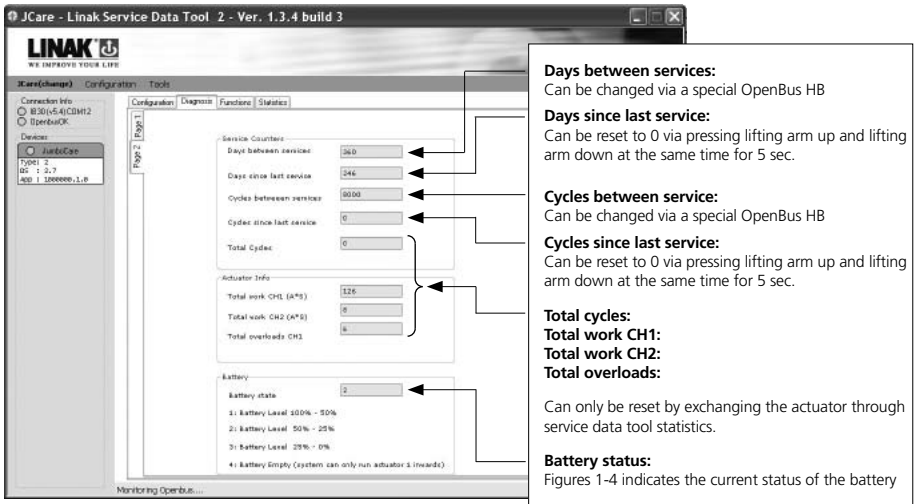
- C) Wake the control box (by pressing a button on the hand control or a button on the CB for operation of lifting/lowering).
- D) Enter the Start menu on your laptop  and choose the LINAK programme to open the Service Data Tool  Use the suggested com port and choose CBJC from the drop down menu.

What to read out on a laptop

Ensure the JUMBO Care view is initiated by pressing the menu shown.
Go to the Diagnosis menu



Go to the Diagnosis menu



How to conclude on the service information

Total cycles and total work:

Please contact the lifter manufacturer in order to decide when it is appropriate to consider exchanging the actuator.

Overload:

If overload has occurred it is recommended to consider stronger lifting equipment with higher working load for the particular patients/institution.

How to exchange an actuator:

When an actuator needs to be exchanged this has to be registered in the Service Data Tool via a laptop.

Go to the Statistics menu.

Press the “replace” button to reset and mount a new actuator.

The acton is confirmed with a shortly illustrated text at the bottom of the Service Data Tool screen: “Service command CLEARED”

	Act. 1	Act. 2
Activations In	40	19
Activations Out	72	26
Endstops In	2	0
Endstops Out	3	0
Overloads In	3	0
Overloads Out	6	0
Acc. work [A*s] In	36	5
Acc. work [A*s] Out	90	3
Acc. duration [s] In	6	3
Acc. duration [s] Out	9	2

Activations In / Out:
No. of activations in in- or outwards direction

Endstops In / Out:
No. of times the actuator has reach endstop in in- or outwards direction

Overloads In / Out:
No. of times the actuator was overloaded, in- or outwards direction

Acc. work [A*s] In / Out:
Accumulated amount of work carried out, in- or outwards direction [Amperage, A; time in seconds]

Acc. duration [s] In / Out:
Accumulated amount of time spent, in- or outwards direction [time in seconds]

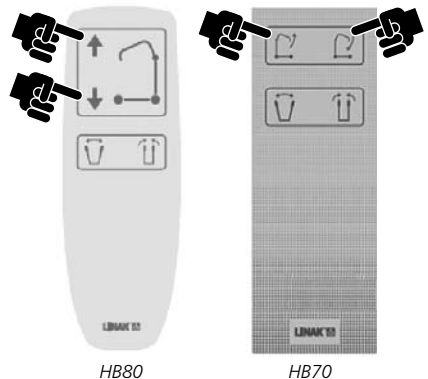
Replace Act. 1 / Act. 2:
When an actuator needs to be exchanged this has to be registered in the Service Data Tool.

Replace actuator 1 (channel 1) or actuator 2 (channel 2) via button press to reset the JUMBO Care - then mount a new actuator.

Resetting of service interval after service has been carried out.

Resetting of service is done by pressing 2 buttons (lifting arm up and lifting arm down) on the hand control at the same time for 5 seconds. (Buttons that need to be pressed might differ depending on hand control type). After pressing the buttons for 5 seconds you will receive an audio signal indicating that the timer is reset. The timer will reset the diodes/clear the display for service symbol, and start counting a new service periode.

Replace actuator 1 (Act. 1 = Channel 1) or 2 (Act. 2 = channel 2)



Notice:

- If the control box is exchanged the actuator data will be lost. The data is stored in the control box, not the actuator.
- Please note that when you disconnect the service data tool from JUMBO Care it will take 1 hour before the control box will power down. If you want to avoid the battery to consume energy the emergency stop button can be activated.
- When a lifting actuator or a control box is exchanged it is necessary to set the current cut off value again via the learn mode function.

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