



## Cordless Angle Nutrunner

### Product Instructions

**Model**

EABS8-1500-4S  
EABS8-1500-4Q  
EABS12-1100-4S  
EABS12-1100-10S  
EABS12-1100-4Q  
EABS17-800-4S  
EABS17-800-10S  
EABS17-800-4Q  
EABS24-500-10S  
EABS24-500-4Q

**Part number**

6151660870  
6151660880  
6151660890  
6151660900  
6151660910  
6151660920  
6151660930  
6151660940  
6151660950  
6151660960



Download the latest version of this document at  
[http://www.desouttertools.com/info/6159925220\\_EN](http://www.desouttertools.com/info/6159925220_EN)

**⚠ WARNING****Read all safety warnings and instructions**

Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference**

# Table of Contents

<b>Product Information .....</b>	<b>4</b>
General Information.....	4
Warranty.....	4
Website .....	4
Information about spare parts .....	4
Dimensioning .....	5
CAD files .....	6
Overview .....	6
General overview .....	6
Product description .....	7
Technical data.....	7
Accessories.....	9
Default tool Ethernet configuration.....	10
Wi-Fi settings .....	10
<b>Installation.....</b>	<b>13</b>
Installation Instructions .....	13
Changing the angle head orientation .....	13
Inserting the battery pack.....	14
How to connect the tool to CVIMONITOR.....	15
Installing the DTH battery (single).....	15
Installing the EABS back suspension.....	16
Installing the EABS front suspension swiveling bail.....	16
<b>Operation.....</b>	<b>17</b>
Configuration Instructions.....	17
How to set up the tool in stand-alone working mode .....	17
How to change network parameters .....	18
How to read the tool status .....	18
Operating Instructions .....	18
Starting the tool .....	18
How to check the battery charge level .....	19
How to reverse the rotation .....	19
How to wake up the tool.....	19
<b>Service.....</b>	<b>21</b>
Tool identification with CVIMONITOR.....	21
Tool test with CVIMONITOR .....	21
Maintenance Instructions .....	21
Instructions for transducerized tools .....	21
Read before maintenance.....	21
Preventive Maintenance.....	22
Calibration with eDOCK and CVIMONITOR .....	22
Checking before putting back into service.....	22
Advanced tool maintenance with ACCESS KEY.....	22
Motor align .....	22
Declaring fixed accessories .....	23

Upgrading tool firmware .....	23
<b>Troubleshooting .....</b>	<b>24</b>
What if the warning signal lights up in red.....	24
Low battery alarm.....	24
List of user infos related to the tools.....	24

## Product Information

### General Information

#### **WARNING Risk of Property Damage or Severe Injury**

Ensure that you read, understand and follow all instructions before operating the tool. Failure to follow all the instructions may result in electric shock, fire, property damage and/or severe bodily injury.

- ▶ Read all Safety Information delivered together with the different parts of the system.
- ▶ Read all Product Instructions for installation, operation and maintenance of the different parts of the system.
- ▶ Read all locally legislated safety regulations regarding the system and parts thereof.
- ▶ Save all Safety Information and instructions for future reference.

### Warranty

- Product warranty will expire 12 months after the product is first taken into use, but will in any case expire at the latest 13 months after delivery.
- Normal wear and tear on parts is not included within the warranty.
  - Normal wear and tear is that which requires a part change or other adjustment/overhaul during standard tools maintenance typical for that period (expressed in time, operation hours or otherwise).
- The product warranty relies on the correct use, maintenance, and repair of the tool and its component parts.
- Damage to parts that occurs as a result of inadequate maintenance or performed by parties other than Desoutter or their Certified Service Partners during the warranty period is not covered by the warranty.
- To avoid damage or destruction of tool parts, service the tool according to the recommended maintenance schedules and follow the correct instructions.
- Warranty repairs are only performed in Desoutter workshops or by Certified Service Partners.

Desoutter offers extended warranty and state of the art preventive maintenance through its Tool Care contracts. For further information contact your local Service representative.

#### **For electrical motors:**

- Warranty will only apply when the electric motor has not been opened.

### Website

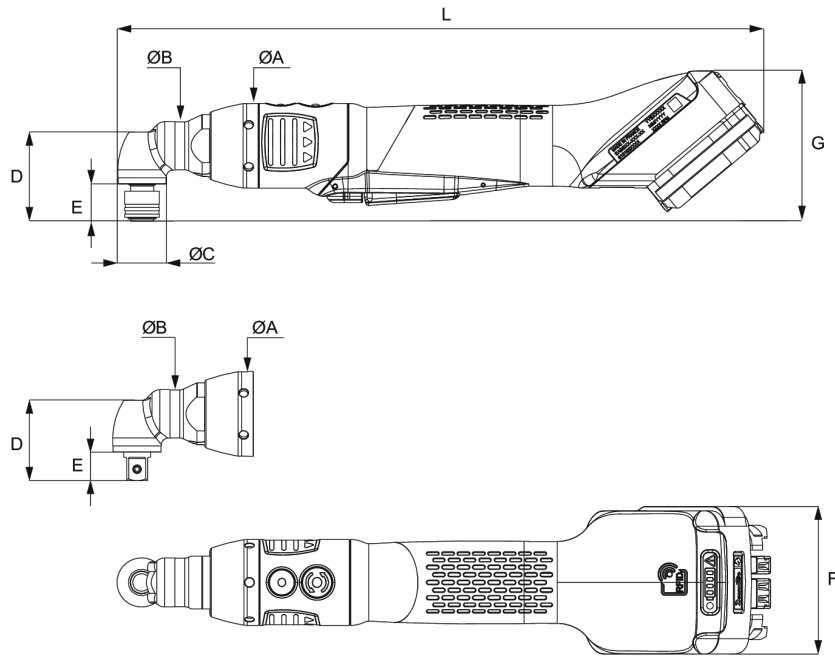
Information concerning our Products, Accessories, Spare Parts and Published Matters can be found on the Desoutter website.

Please visit: [www.desouttertools.com](http://www.desouttertools.com).

### Information about spare parts

Exploded views and spare parts lists are available in Service Link at [www.desouttertools.com](http://www.desouttertools.com).

## Dimensioning



Model	Output drive
EABS8-1500-4S	Sq. 1/4"
EABS8-1500-4Q	Hex 1/4"
EABS12-1100-4S	Sq. 1/4"
EABS12-1100-10S	Sq. 3/8"
EABS12-1100-4Q	Hex 1/4"
EABS17-800-4S	Sq. 1/4"
EABS17-800-10S	Sq. 3/8"
EABS17-800-4Q	Hex 1/4"
EABS24-500-10S	Sq. 3/8"
EABS24-500-4Q	Hex 1/4"

mm

Model	L	ØA	ØB	ØC
EABS8-1500-4S	297	39	22	22
EABS8-1500-4Q	297	39	22	22
EABS12-1100-4S	297	39	22	22
EABS12-1100-10S	297	39	22	22
EABS12-1100-4Q	297	39	22	22
EABS17-800-4S	297	39	22	22
EABS17-800-10S	297	39	22	22
EABS17-800-4Q	297	39	22	22
EABS24-500-10S	335	39	23	28
EABS24-500-4Q	335	39	23	28

mm

Model	D	E	F	G
EABS8-1500-4S	34	10	67	62
EABS8-1500-4Q	41	17	67	69
EABS12-1100-4S	34	10	67	62

Model	D	E	F	G
EABS12-1100-10S	37	13	67	65
EABS12-1100-4Q	41	17	67	69
EABS17-800-4S	34	10	67	62
EABS17-800-10S	37	13	67	65
EABS17-800-4Q	41	17	67	69
EABS24-500-10S	46	13	67	69
EABS24-500-4Q	52	19	67	75

in.

Model	L	ØA	ØB	ØC
EABS8-1500-4S	11.69	1.54	0.87	0.87
EABS8-1500-4Q	11.69	1.54	0.87	0.87
EABS12-1100-4S	11.69	1.54	0.87	0.87
EABS12-1100-10S	11.69	1.54	0.87	0.87
EABS12-1100-4Q	11.69	1.54	0.87	0.87
EABS17-800-4S	11.69	1.54	0.87	0.87
EABS17-800-10S	11.69	1.54	0.87	0.87
EABS17-800-4Q	11.69	1.54	0.87	0.87
EABS24-500-10S	13.19	1.54	0.91	1.10
EABS24-500-4Q	13.19	1.54	0.91	1.10

in.

Model	D	E	F	G
EABS8-1500-4S	1.34	0.39	2.64	2.44
EABS8-1500-4Q	1.61	0.67	2.64	2.72
EABS12-1100-4S	1.34	0.39	2.64	2.44
EABS12-1100-10S	1.46	0.51	2.64	2.56
EABS12-1100-4Q	1.61	0.67	2.64	2.72
EABS17-800-4S	1.34	0.39	2.64	2.44
EABS17-800-10S	1.46	0.51	2.64	2.56
EABS17-800-4Q	1.61	0.67	2.64	2.72
EABS24-500-10S	1.81	0.51	2.64	2.72
EABS24-500-4Q	2.05	0.75	2.64	2.95

## CAD files

For information about the dimensions of a product, see the Dimensional drawings archive:

<https://www.desouttertools.com/resource-centre>

## Overview

### General overview

EABS tools are wireless angle-head nutrunners.

They are hand-held by the operator and powered by a Desoutter battery pack.

Psets and Assembly Processes can be set up with:

- CVI3 Vision
- CONNECT
- CVI CONFIG

Tightening reports, results and curves are collected by the system the tool is connected to.

Tool maintenance can be done with eDOCK and CVIMONITOR software.

EABS tools can be used in stand-alone without communicating with systems.

The angle head can be oriented in 8 different positions each 45°.

The following models are equipped with *eCompass* feature.

- EABS8-1500-4S
- EABS8-1500-4Q
- EABS12-1100-4S
- EABS12-1100-10S
- EABS12-1100-4Q
- EABS17-800-4S
- EABS17-800-10S
- EABS17-800-4Q
- EABS24-500-10S
- EABS24-500-4Q

This feature is available for tools equipped with a gyroscope.

This feature is used to compensate any movement of the operator that might add or remove angle in the assembly.

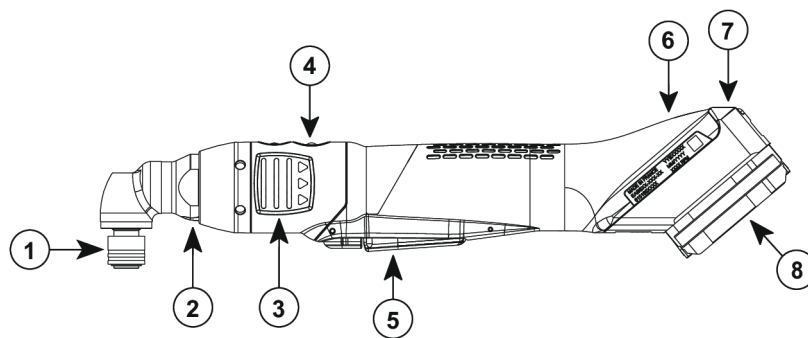
Moreover, an angle range (tool angle limits) is defined to stop the tightening if the operator movement is outside this range.

This feature is programmable with CVI CONFIG software.

To use the feature with CVI3 controller, the EPOD model (EPOD 2 Compass) must be connected to the controller.

To use the feature with Connect, the feature must be activated within CVI CONFIG.



## Product description



1	Output drive
2	Front light
3	Reporting LEDs
4	Reverse button
5	Trigger
6	Contactless antenna
7	Tool and battery pack status
8	Battery footprint

## Technical data

### Voltage (V)

18 V  or 36 V 

### Power consumption

500 W

### Torque range (Nm)

Model	Min. / Nominal / Max.
EABS8-1500-4S	1.5 / 7 / 8
EABS8-1500-4Q	1.5 / 7 / 8

Model	Min. / Nominal / Max.
EABS12-1100-4S	4 / 10 / 12
EABS12-1100-10S	4 / 10 / 12
EABS12-1100-4Q	4 / 10 / 12
EABS17-800-4S	5 / 14 / 17
EABS17-800-10S	5 / 14 / 17
EABS17-800-4Q	5 / 14 / 17
EABS24-500-10S	10 / 22 / 24
EABS24-500-4Q	10 / 22 / 24

**Torque range (ft.lb)**

Model	Min. / Nominal / Max.
EABS8-1500-4S	1.11 / 5.16 / 5.9
EABS8-1500-4Q	1.11 / 5.16 / 5.9
EABS12-1100-4S	2.95 / 7.38 / 8.85
EABS12-1100-10S	2.95 / 7.38 / 8.85
EABS12-1100-4Q	2.95 / 7.38 / 8.85
EABS17-800-4S	3.69 / 10.33 / 12.54
EABS17-800-10S	3.69 / 10.33 / 12.54
EABS17-800-4Q	3.69 / 10.33 / 12.54
EABS24-500-10S	7.38 / 16.23 / 17.70
EABS24-500-4Q	7.38 / 16.23 / 17.70

**Rated speed (rpm)**

Model	rpm
EABS8-1500-4S	1500
EABS8-1500-4Q	1500
EABS12-1100-4S	1100
EABS12-1100-10S	1100
EABS12-1100-4Q	1100
EABS17-800-4S	800
EABS17-800-10S	800
EABS17-800-4Q	800
EABS24-500-10S	520
EABS24-500-4Q	520

**Weight (kg)**

Model	kg
EABS8-1500-4S	1
EABS8-1500-4Q	1
EABS12-1100-4S	1
EABS12-1100-10S	1
EABS12-1100-4Q	1
EABS17-800-4S	1
EABS17-800-10S	1
EABS17-800-4Q	1
EABS24-500-10S	1.3
EABS24-500-4Q	1.3



**Weight (lb)**

Model	lb
EABS8-1500-4S	2.20
EABS8-1500-4Q	2.20
EABS12-1100-4S	2.20
EABS12-1100-10S	2.20
EABS12-1100-4Q	2.20
EABS17-800-4S	2.20
EABS17-800-10S	2.20
EABS17-800-4Q	2.20
EABS24-500-10S	2.87
EABS24-500-4Q	2.87

**Wireless Communication specifications****RFID 13.56 MHz**

Frequency: 13.553 MHz - 13.567 MHz

H-Field: &lt; 42 dBµA/m at 10 m

**WIFI 2.4 GHz**

Frequency: 2400 MHz - 2483.5 MHz

EIRP: &lt; 20 dBm

**WIFI 5 GHz**

Frequency: 5150 MHz - 5350 MHz

EIRP: &lt; 20 dBm

Frequency: 5470 MHz - 5725 MHz

EIRP: &lt; 20 dBm

**Storage and use conditions**

Storage temperature	-20 to +70 °C (-4 to +158 F)
Operating temperature	0 to 45 °C (32 to 113 F)
Storage humidity	0-95 % RH (non-condensing)
Operating humidity	0-90 % RH (non-condensing)
Altitude up to	2000 m (6562 feet)
Usable in Pollution degree 2 environment	
Indoor use only	

**Accessories****Required accessories**

Battery pack 18 V 2.5 Ah	6158132660
Battery pack 36 V 2.5 Ah	6158132670
Battery pack charger	6158132700

**Optional accessories**

eDOCK	6158119760
Protective cover for EABS8 / EABS12 / EABS17	6158132500
Protective cover for EABS24	6158132510

DTH battery (single)	6158133850
EABS back suspension	6158132960
EABS front suspension swiveling bail	6158134050

### Default tool Ethernet configuration

Item	Desoutter default parameter	Other possible values
Allocation method for IP address	Static	Keep original IP address DHCP
IP address	192.168.5.221	Refer to local settings
Subnet mask	255.255.255.0	Refer to local settings
Gateway	127.0.0.1	Refer to local settings
Communication port	7477	Refer to local settings

### WI-FI settings

Item	Desoutter default parameter	Other possible values
Network name (SSID)	Desoutter_1	String of 255 characters
Security type	WPA/WPA2 PSK	Open Shared secret LEAP PEAP EAP/TLS
Encryption type	AES/CCMP	none WEP64 WEP168 TKIP
Security key	mydesoutter_1	String of 255 characters
Regulatory domain	Worldwide	ETSI (Europe) FCC (America) TELEC (Japan)
Radio band	2.4 GHz - Channel 1-11	5 GHz - U-NII-1 5 GHz - U-NII-2 5 GHz - U-NII-2 ext 5 GHz - U-NII-3
Data rate	54 Mbit	1 Mbit 2 Mbit 5.5 Mbit 6 Mbit 9 Mbit 11 Mbit 12 Mbit 18 Mbit 24 Mbit 36 Mbit 48 Mbit 13 Mbit (MCS1) 19.5 Mbit (MCS2) 26 Mbit (MCS3) 39 Mbit (MCS4) 52 Mbit (MCS5) 58.5 Mbit (MCS6) 65 Mbit (MCS7) 6.5 Mbit (MCS0)
Link adaptation	True	-

Item	Desoutter default parameter	Other possible values
RSSI (Received Strength Signal Indication) on tool	-	> -65 dBm as a minimum

### Regulatory domain

A WLAN regulatory domain can be defined as a bounded area that is controlled by a set of laws or policies. Many countries follow standards set by FCC, ETSI, TELEC or worldwide.

### 2.4 GHz authorized channel list per regulatory domain

Channel	FCC America	ETSI Europe	TELEC Japan	Worldwide
1	x	x	x	x
2	x	x	x	x
3	x	x	x	x
4	x	x	x	x
5	x	x	x	x
6	x	x	x	x
7	x	x	x	x
8	x	x	x	x
9	x	x	x	x
10	x	x	x	x
11	x	x	x	x
12	N/A	x	x	N/A
13	N/A	x	x	N/A

### 5 GHz authorized channel list per regulatory domain

Channel	Radio band	FCC North America	ETSI Europe	TELEC Japan	Worldwide
36	U-NII-1	x	x	x	x
40		x	x	x	x
44		x	x	x	x
48		x	x	x	x
52	U-NII-2	x	x	x	x
56		x	x	x	x
60		x	x	x	x
64		x	x	x	x
100	U-NII-2 Ext	x	x	x	x
104		x	x	x	x
108		x	x	x	x
112		x	x	x	x
116		x	x	x	x
120		N/A	x	x	N/A
124		N/A	x	x	N/A
128		N/A	x	x	N/A
132		x	x	x	x
136		x	x	x	x
140		x	x	x	x

Channel	Radio band	FCC North America	ETSI Europe	TELEC Japan	Worldwide
149	U-NII-3	x	x	N/A	N/A
153		x	x	N/A	N/A
157		x	x	N/A	N/A
161		x	x	N/A	N/A
165		x	x	N/A	N/A

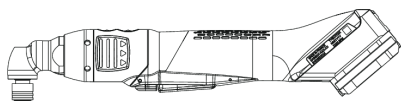
## Installation

### Installation Instructions

#### Changing the angle head orientation

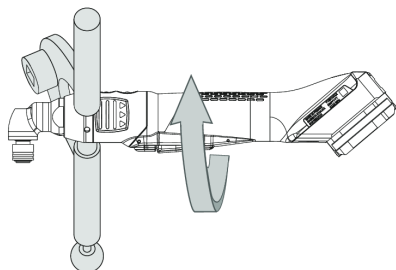
**i** See the instructions in the diagrams.

1.



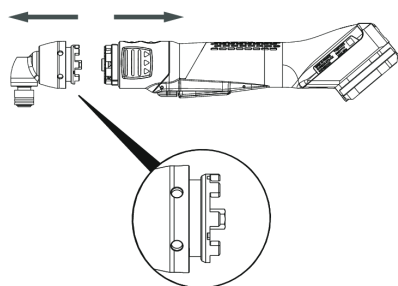
The angle head is in its standard position.

2.



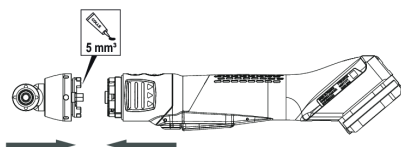
Use fixing clamps to unscrew the angle head in the clockwise direction.

3.



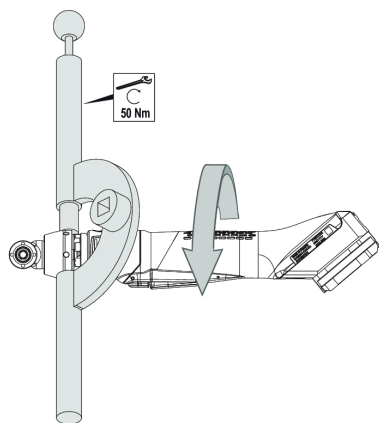
Disconnect the parts and locate the new position of the angle head.

4.



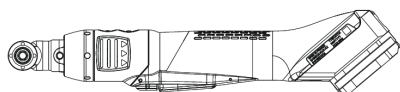
Re-mount the angle head.  
Apply 5 mm<sup>3</sup> of Loctite 243 as shown in the diagram.  
Take care not to crush the wires.

5.



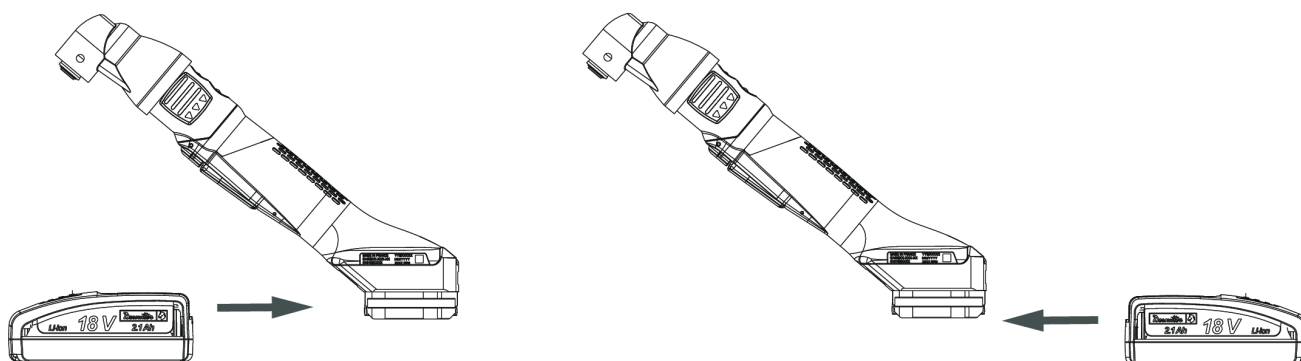
Use fixing clamps to tighten the angle head in the anticlockwise direction. Apply a torque of 50 Nm.

6.



The angle head is in its new position.

### Inserting the battery pack



Insert the battery pack in front or behind the tool until a locking sound can be clearly heard.

There is no ON/OFF switch: the tool is ready to operate as soon as a battery pack is mounted.

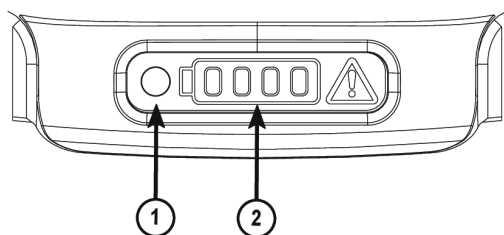
When the tool is powered on, tool LEDs are blinking.

**NOTICE** Usage recommendations for battery packs

Ensure a longer service life of the battery pack.

- Unplug the battery pack when the tool is not used.

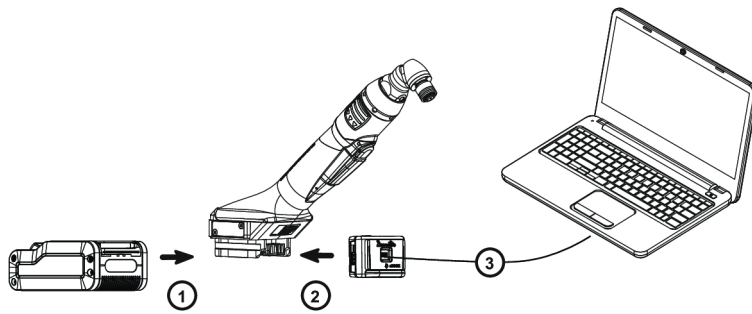
Do not leave the battery pack on the charger when the charger power supply is off.



- |   |                      |
|---|----------------------|
| 1 | Tool status          |
| 2 | Battery charge level |

The LED of the tools status lights up in blue.  
The LEDs of the battery charge level are lit.

## How to connect the tool to CVIMONITOR



Plug a battery pack to the tool.

Connect eDOCK to the tool and to the USB port of the computer.

**i** Respect the connection order.

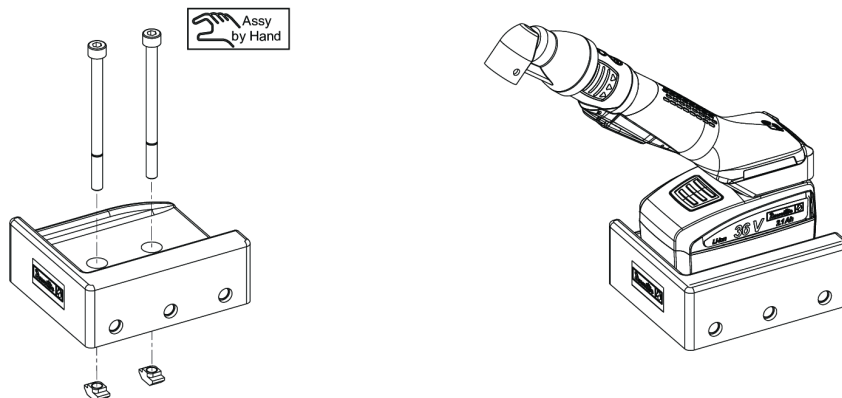
Launch CVIMONITOR from the computer desktop.

Click **Tool** in the top bar.

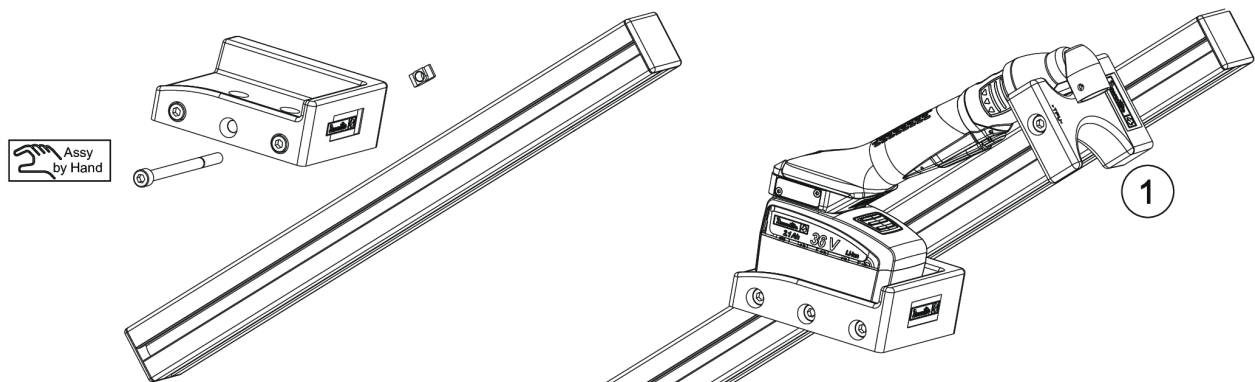
Click **Select** to select the tool.

## Installing the DTH battery (single)

Installation on a table



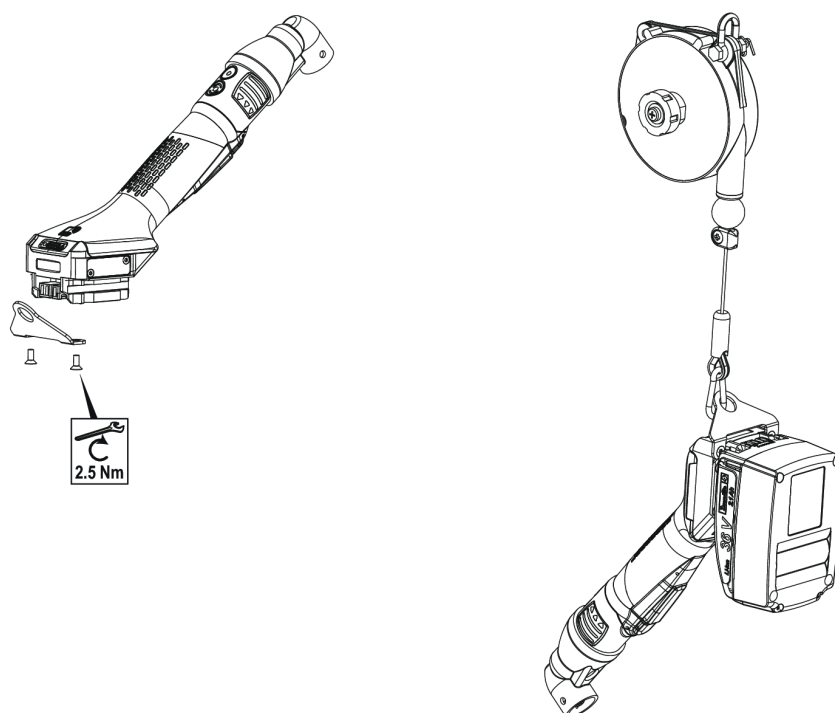
Installation on a rail



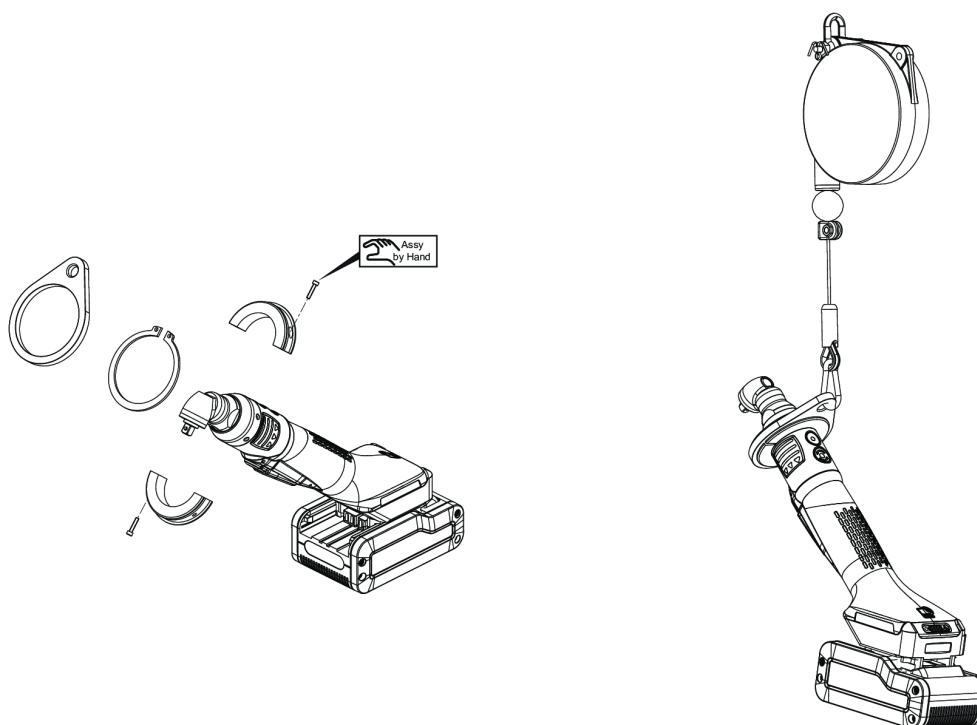
**i** Note above that an additional accessory (1) is required to hold the tool. This Desoutter accessory can be ordered as 6158114110.

## Installing the EABS back suspension

**i** This accessory can only be mounted on a tool with a serial number starting from **19B63996**.



## Installing the EABS front suspension swiveling bail





## Operation

### Configuration Instructions

#### How to set up the tool in stand-alone working mode

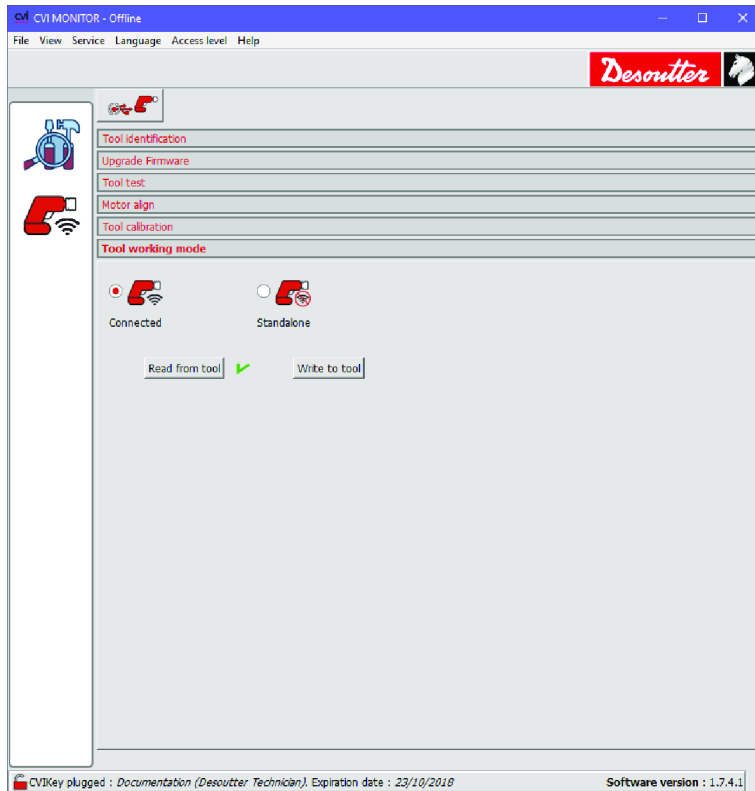
**i** Changing the tool working mode will erase the Pset, the results and curves present in the tool memory.

Launch CVIMONITOR.



Click this icon.

Click **Tool working mode**.



Tick **Standalone**.

Click **Write to tool**.

Click **File > Exit** to quit.

#### How to set up parameters

Plug the eDOCK to the tool and connect it to the USB port of the computer where CVI CONFIG is installed.

Launch CVI CONFIG.

Go to the tree view area.

Create or select a "Factory / Assembly Line / Working area".

Right-click the "Working area" and add a product.

Select **ExBC Standalone**.

Refer to **CVI CONFIG** Configuration manual available at <https://www.desouttertools.com/resource-centre>.

#### Instructions for use

It is possible to change the Pset by connecting the tool to the computer via eDOCK and by using CVI CONFIG.

How to change network parameters

Via CVIMONITOR and eDOCK


Refer to chapter *How to connect the tool to CVIMONITOR [Page 15]*.

 Click this icon.

 Click this icon to display the current parameters of the tool.

Change the parameters.  
Refer to chapters *Default tool Ethernet configuration [Page 10]* and *WI-FI settings [Page 10]*.

 Check that IP address, subnet mask and port number of the controller/hub are compatible.

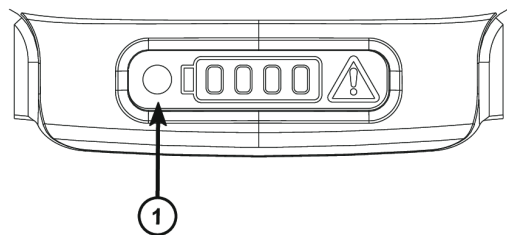
 Click this icon to write the new parameters into the tool.

Via Easy Pairing

When the pairing is done to CONNECT via RFID, WI-FI settings are directly written to the tool.

 Network settings must have been done previously by using CVI CONFIG.

How to read the tool status




1 LED showing the tool status	
The LED is not lit.	The synchronization with the system is required. The tool is not allowed to run the tightening process.
The LED is blinking blue at a regular frequency.	The synchronization with the system is in progress. The tool is not allowed to run the tightening process.
The LED is blinking blue twice at a regular frequency.	The tool is synchronized with the system but locked. The tool is not allowed to run the tightening process. Go to the system, press the icon "STOP" to visualize the reason why the tool is locked.
The LED is steady blue.	The tool is ready to run the tightening process.

Operating Instructions

Starting the tool

- Fit the tool with a suitable socket.
- Select the appropriate program on the system.
- Hold the tool by means of the handle and apply to the fastener to be tightened.

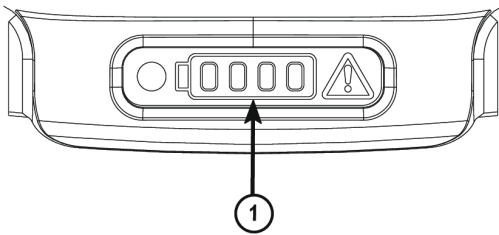
 **WARNING Risk Of Injury**  
As the reaction force increases in proportion to the tightening torque, there is a risk of severe bodily injury of the operator as a result of unexpected behavior of the tool.

- Make sure that the tool is in perfect working order and the system is programmed correctly.

The white front light illuminates the area to tighten.

Press the trigger to start the tool.

### How to check the battery charge level



The battery is charged to 90-100%.



The battery is charged to 75-90%.



The battery is charged to 50-75%.

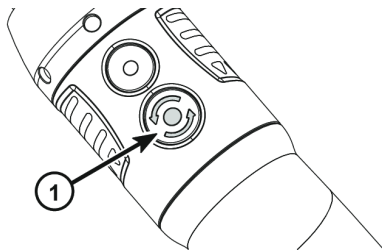


The battery is charged to 25-50%.



The battery is discharged.

### How to reverse the rotation



1 Run reverse button

Press this button.

Red and green LEDs are blinking alternatively.

Apply the tool to the fastener and press the trigger.

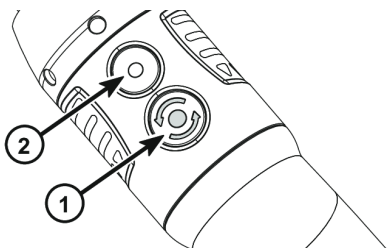
### How to wake up the tool

Press the trigger or move the tool.

The WI-FI is de-activated after 5 minutes of inactivity.

Refer to "Power saving mode" configurable in CVI CONFIG.

Press the trigger or move the tool.



The tool powers off after 30 minutes of inactivity.  
Long press the reverse button (1).  
Refer to "Power off" configurable with CVI CONFIG.  
Press the "Function" button (2).  
Unplug and plug the battery pack.

## Service

### Tool identification with CVIMONITOR



Click this icon.

Click **Tool identification**.

Go to the bottom of the screen and click **Read tool**.

A green tick indicates the reading is successful.

### Tool test with CVIMONITOR



Click this icon.

Click **Tool test**.

Click **Start tool test**.

LEDs start blinking.

Press the triggers, the reverse button.

Click **Start audio test**.

The tool emits a sound.

 The green tick displayed indicates the function is working properly.

## Maintenance Instructions

### Instructions for transducerized tools

- Do not damage the wires when pulling out the connectors.
- Do not pull out the torque transducer wires.
- Ensure that wires are not crushed.

### Read before maintenance

#### **WARNING Connection Hazard**

The tool can start unexpectedly and cause severe bodily injury.

- Prior to any maintenance task, disconnect the tool.

Maintenance should be performed by **qualified personnel only**.

Follow standard engineering practices and refer to exploded views for disassembling and reassembling the different parts of the system.

Take into account the following instructions given in the exploded views.

Be cautious: when reassembling, tighten the right direction.



Left hand thread



Right hand thread

When reassembling:



Apply the recommended glue.



Tighten to the required torque.



Lubricate with the required grease or oil. Do not apply too much grease on gears or bearings; a thin coat shall be sufficient.

## Preventive Maintenance

### Recommendations

Overhaul and preventive maintenance are recommended at regular intervals once per year or after a maximum number of tightenings (refer to the table below) depending on which occurs sooner.

### Maintenance frequency

500,000 tightenings

## Calibration with eDOCK and CVIMONITOR

The calibration procedure is recommended to compensate for any possible drift of the tool torque or after any change of tool element.

In the manual mode, the standard procedure is executed.

Measurements and values are typed manually by the operator.

The equipment required is as follows:

- Tool equipped with a torque transducer in line
- CVIMONITOR
- Delta measuring unit



Click this icon.

Click **Tool calibration**.

The standard procedure is as follows:

1. Select the Pset to execute.
2. Select the number of tightenings to perform (5 by default, 50 as a maximum).  
According to the test bench use, the tightening may be preceded by a loosening.
3. Click "Start calibration".
4. Start performing the first loosening / tightening operation. The operation must be successful.
5. At the end of each operation, enter the torque value on the measuring unit.
6. When all operations are performed, a new calibration value is displayed.

## Checking before putting back into service

Prior to putting the equipment back into service, check that its main settings have not been modified and that the safety devices work properly.

## Advanced tool maintenance with ACCESS KEY

Launch CVIMONITOR.

To activate the screens, you need to have an ACCESS KEY USB stick with the right profile (configured with the Desoutter CVIKEY software).

If not, contact your CVIKEY manager for support.

## Motor align



Click this icon.

Click **Motor align**.

-  It is mandatory to calibrate the tools after a motor align.

It is recommended to align the motor in case of motor, transducer or PCB change.

Before starting, press the trigger and **KEEP IT PRESSED DURING THE COMPLETE PROCESS**. If not, the tool could be severely damaged.

While pressing the trigger, click **Start motor align**.

The process will run during around 1 minute and will stop automatically.

Click "Stop motor align" to stop the process before the end.

Release the trigger.

### Declaring fixed accessories

A fixed accessory mounted on a tool must be declared in this screen.



Click this icon.

Click **Tool identification**.

Select the type of accessory and fill in the parameters.

Click **Write to tool**.



It is mandatory to calibrate the tool equipped with the fixed accessory before use.

### Upgrading tool firmware



Click this icon.

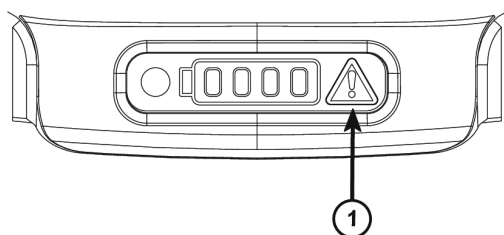
Click **Upgrade tool firmware**.

Contact your Desoutter representative to get the last firmware version.

Follow the instructions on screen.

## Troubleshooting

### What if the warning signal lights up in red



1	Warning signal
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The red light is blinking slowly.

The red light is blinking at regular intervals.

The red light is blinking quickly.

The red light is steady.

The tool is waiting for the synchronization with the system.

The tool is locked by a "Warning" user info.

Go to the system to unlock the event.

There is a tool issue.

Go to the system to visualize the issue details.

The WI-FI board is not detected.

Contact your Desoutter representative to get more information and support.

### Low battery alarm



When the light on the right side illuminates in white, the battery pack must be reloaded.

### List of user infos related to the tools

Type	Colour	Description	Action
Information	White	For information only.	No action is required.
Warning	Orange	The tool is locked.	Click the message to clear (acknowledge) the message and unlock the tool.
Error	Red	The tool is locked.	The issue has to be solved to unlock the tool and clear the error message.

Number	Description	Procedure
I004	Span failure	1- Span value from torque sensor is outside bounds. 2- Try once again to start the tool with no mechanical constraints. If the problem occurs again, contact your Desoutter representative for support.
I005	Offset failure	1- Offset value from torque sensor is outside bounds. 2- Try once again to start the tool with no mechanical constraints. If the problem occurs again, contact your Desoutter representative for support.
I026	Tool maintenance alarm n1	1- The tool tightening counter has been reached.
I027	Tool maintenance alarm n2	1- The tool tightening counter has been reached.
I038	Tool logs	1- Unexpected tool software exception. 2- Log file has been generated by the tool. 3- Contact your Desoutter representative for support.



Number	Description	Procedure
I046	Abnormal battery current	1- Abnormal battery current consumption. Check the Pset settings. 2- This error can be due to wrong speed settings.
I063	Battery pack removed	1- Battery pack removed from the tool detected. 2- After few seconds, the tool will shutdown
I065	External start ignored	1- External start detected but ignored. 2- Check tool and external start configuration.
I103	Invalid rotary selector direction	1- Change the direction of the rotary selector. 2- Verify that the rotary selector is in correct position or not damaged.
I205	Torque settings	1- Invalid Torque setting: torque is greater than tool characteristics. 2- Check Pset settings with the tool characteristics.
I206	Speed settings	1- Invalid speed setting: speed is greater than tool characteristics. 2- Check Pset settings with the tool maximum speed.
I210	Invalid Pset selected	1- The selected Pset does not match the Pset selectable in the Assembly Process.
I211	Invalid trigger configuration	1- The tool connected to the system is not equipped with the trigger required by the trigger configuration. 2- Adjust your trigger configuration to the tool or change the tool according to the trigger configuration.
I224	IGBT too hot	1- Power electronics too warm. 2- Let the system cool down.
I251	No Pset selected	1- No Pset selected. 2- Select a Pset.
I270	Time settings	1-Invalid Time setting 2-Check Pset settings with correct time value settings
W010	Tool calibration expired	1- The tool calibration date has expired. 2- A tool calibration needs to be done to ensure the measurement accuracy.
W028	Battery tool version error	1 - Battery tool version and system version are not compatible.
W030	The battery is low.	1- The battery is low. 2- Recharge the battery.
W033	Tool time error	1- The tool time is not set correctly. The tightening results will not be time stamped. 2- Connect the tool to the system to set date and time.
W036	Tool memory full	1- The tool memory is full. 2- Connect the tool to the system to empty the memory.
W062	Overload of torque	1- Overload of the torque (could be a rehit). 2- Check the tool cable is not damaged.
W212	Result not stored	1- It is not possible to store the tightening result in the system. 2- Contact your Desoutter representative for support.
W216	Current high	1- Maximum current exceeded. 2- Contact your Desoutter representative for support.
W267	Result transfer error	Result transfer error.
E007	Motor too hot	1- Tool is locked because the maximum motor temperature has been reached. 2- Tool will remain locked until the motor temperature comes back to its normal value.
E008	Tool angle fault	1- Problem detected with the tool angle sensor. 2- The tool needs maintenance.

Number	Description	Procedure
E009	Tool invalid parameters	<ol style="list-style-type: none"> <li>1- Check the tool compatibility.</li> <li>2- The tool memory cannot be read or is invalid.</li> <li>3- The tool needs maintenance. If the problem occurs again, contact your Desoutter representative for support.</li> </ol>
E012	Tool EEPROM error	<ol style="list-style-type: none"> <li>1- The tool memory cannot be read or is invalid.</li> <li>2- The tool needs maintenance. If the problem occurs again, contact your Desoutter representative for support.</li> </ol>
E018	Torque out of range !	<ol style="list-style-type: none"> <li>1- The target torque value is above the tool maximum torque.</li> <li>2- Check Pset settings with tool characteristics.</li> </ol>
E029	The battery is empty.	<ol style="list-style-type: none"> <li>1- The battery pack is discharged. The tool cannot tighten.</li> <li>2- Recharge the battery pack.</li> </ol>
E031	Battery error	<ol style="list-style-type: none"> <li>1- Abnormal battery voltage. The tool cannot tighten.</li> <li>2- Recharge the battery pack. If the problem occurs again, replace the battery pack.</li> </ol>
E032	Tool display error	<ol style="list-style-type: none"> <li>1- Board display malfunction.</li> <li>2- Contact your Desoutter representative for support.</li> </ol>
E034	Tool memory error	<ol style="list-style-type: none"> <li>1- The tool memory does not work properly.</li> <li>2- Contact your Desoutter representative for support.</li> </ol>
E035	Tool memory locked	<ol style="list-style-type: none"> <li>1- The tool memory is locked to protect old data from rewriting.</li> <li>2- Connect the tool to the computer via eDOCK to retrieve old data.</li> </ol>
E037	Tool trigger error	<ol style="list-style-type: none"> <li>1- The tool trigger does not work properly.</li> <li>2- Check and clean the trigger. If the problem occurs again, contact your Desoutter representative for support.</li> </ol>
E045	Abnormal battery voltage	<ol style="list-style-type: none"> <li>1- Check the battery pack.</li> <li>2- This error can be due to charger malfunction or end of life battery.</li> </ol>
E047	Battery is too low.	<ol style="list-style-type: none"> <li>1- Check the battery pack.</li> <li>2- If the problem occurs again, replace the battery pack.</li> </ol>
E048	Battery type not allowed	<ol style="list-style-type: none"> <li>1- Battery type not allowed.</li> <li>2- Replace the battery pack or your configuration.</li> </ol>
E223	Drive init error	<ol style="list-style-type: none"> <li>1- Software failure.</li> <li>2- Restart the system.</li> <li>3- If the problem occurs again, contact your Desoutter representative for support.</li> </ol>
E227	Motor stalled	<ol style="list-style-type: none"> <li>1- Motor stalled (could be missing phase, wrong motor tune or power electronics failure)</li> <li>2- Try once again.</li> <li>3- If the problem occurs again, contact your Desoutter representative for support.</li> </ol>
E228	Drive error	<ol style="list-style-type: none"> <li>1- Software failure.</li> <li>2- Restart the system.</li> <li>3- If the problem occurs again, contact your Desoutter representative for support.</li> </ol>



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