

# Cordless Angle Screwdriver

## Product Instructions

**Model**

ELS7-360-A4S  
ELS7-880-A  
ELS7-880-A10S  
ELS15-480-A  
ELS15-480-A4S  
ELS30-300-A  
ELS45-180-A  
ELS60-160-A  
ELC7-360-A4S-W  
ELC7-880-A-W  
ELC15-480-A-W  
ELC30-300-A-W  
ELC45-180-A-W  
ELC60-160-A-W

**Part number**

6151657250  
6151656280  
6151658880  
6151656290  
6151658390  
6151656300  
6151656310  
6151656320  
6151661040  
6151661050  
6151661060  
6151661070  
6151661080  
6151661090



Download the latest version of this document at  
[http://www.desouttertools.com/info/6159929250\\_EN](http://www.desouttertools.com/info/6159929250_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**

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## 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

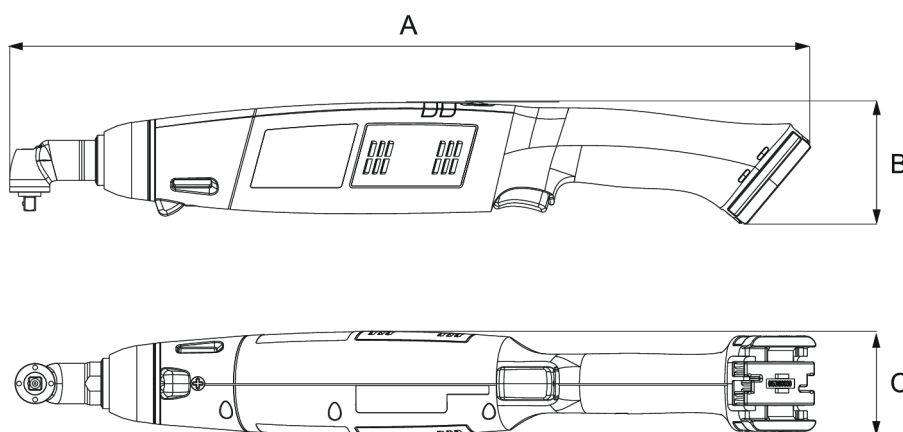
Information concerning our Products, Accessories, Spare Parts and Published Matters can be found on the Desoutter website.

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).

### Dimensions



	mm	in.
A	439	17.28
B	66	2.60
C	57	2.24

## CAD files

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

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

## Overview

### General overview

#### ELS

ELS tools are cordless angle-head screwdrivers.

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

Tools are delivered with 1 Pset.

The torque can be adjusted manually on the tool.

The speed can be adjusted by using:

- Speed Setting Module
- E-LIT CONFIG

Tool LEDs give a visual feedback of the tightening report and of the tool status.

Tool settings can be done with:

- Tool
- Speed Setting Module
- ELIT-CONFIG

#### ELC

ELC tools are wireless angle-head screwdrivers.

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

Psets and Assembly Processes can be set up with:

- CVI CONFIG

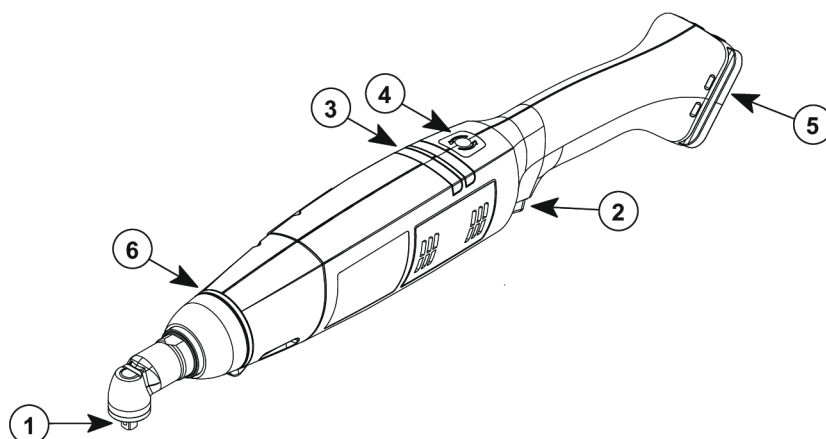
Tightening reports (OK, NOK, batch report) are collected by CONNECT.

Tool settings can be done with:

- Tool
- Speed Setting Module
- CVI CONFIG

Tool maintenance can be done with eDOCK and CVIMONITOR software.

## Product description



1	Output drive
2	Trigger
3	Reporting LEDs
4	Reverse button
5	Battery footprint
6	Identification ring

## Technical data

**Input voltage**

Model	V
ELS 7-360-A4S	18
ELS 7-880-A	18
ELS 7-880-A10S	18
ELS 15-480-A	18
ELS 15-480-A4S	18
ELS 30-300-A	36
ELS 45-180-A	36
ELS 60-160-A	36
ELC 7-360-A4S-W	18
ELC 7-880-A-W	18
ELC 15-480-A-W	18
ELC 30-300-A-W	36
ELC 45-180-A-W	36
ELC 60-160-A-W	36

**Output drive**

Model	Type
ELS 7-360-A4S	Sq. 1/4"
ELS 7-880-A	Hex. 1/4" F
ELS 7-880-A10S	Sq. 3/8"
ELS 15-480-A	Sq. 3/8"
ELS 15-480-A4S	Sq. 1/4"
ELS 30-300-A	Sq. 3/8"
ELS 45-180-A	Sq. 3/8"
ELS 60-160-A	Sq. 1/2"

Model	Type
ELC 7-360-A4S-W	Sq. 1/4"
ELC 7-880-A-W	Hex. 1/4" F
ELC 15-480-A-W	Sq. 3/8"
ELC 30-300-A-W	Sq. 3/8"
ELC 45-180-A-W	Sq. 3/8"
ELC 60-160-A-W	Sq. 1/2"

**Torque range (Nm)**

Model	Min. / Max.
ELS 7-360-A4S	1.5 / 7
ELS 7-880-A	1.5 / 7
ELS 7-880-A10S	1.5 / 7
ELS 15-480-A	5 / 15
ELS 15-480-A4S	5 / 15
ELS 30-300-A	10 / 30
ELS 45-180-A	20 / 45
ELS 60-160-A	25 / 60
ELC 7-360-A4S-W	3 / 7
ELC 7-880-A-W	3 / 7
ELC 15-480-A-W	5 / 15
ELC 30-300-A-W	10 / 30
ELC 45-180-A-W	20 / 45
ELC 60-160-A-W	25 / 60

**Torque range (ft.lb)**

Model	Min. / Max.
ELS 7-360-A4S	13.3 / 62.0
ELS 7-880-A	13.3 / 62.0
ELS 7-880-A10S	13.3 / 62.0
ELS 15-480-A	44.2 / 133.0
ELS 15-480-A4S	44.2 / 133.0
ELS 30-300-A	88.5 / 265.0
ELS 45-180-A	177.0 / 398.0
ELS 60-160-A	221.0 / 531.0
ELC 7-360-A4S-W	13.3 / 62.0
ELC 7-880-A-W	13.3 / 62.0
ELC 15-480-A-W	44.2 / 133.0
ELC 30-300-A-W	88.5 / 265.0
ELC 45-180-A-W	177.0 / 398.0
ELC 60-160-A-W	221.0 / 531.0

**Rated speed (rpm)**

Model	rpm
ELS 7-360-A4S	120-360
ELS 7-880-A	400-880
ELS 7-880-A10S	400-880
ELS 15-480-A	200-480
ELS 15-480-A4S	200-480


Model	rpm
ELS 30-300-A	100-300
ELS 45-180-A	50-180
ELS 60-160-A	50-160
ELC 7-360-A4S-W	150-360
ELC 7-880-A-W	400-880
ELC 15-480-A-W	200-480
ELC 30-300-A-W	100-300
ELC 45-180-A-W	50-180
ELC 60-160-A-W	40-160

**Power consumption**

Model	W
ELS 7-360-A4S	340
ELS 7-880-A	830
ELS 7-880-A10S	830
ELS 15-480-A	970
ELS 15-480-A4S	970
ELS 30-300-A	1720
ELS 45-180-A	1490
ELS 60-160-A	1750
ELC 7-360-A4S-W	340
ELC 7-880-A-W	930
ELC 15-480-A-W	970
ELC 30-300-A-W	1720
ELC 45-180-A-W	1790
ELC 60-160-A-W	1750

**Weight**

Model	kg	lb
ELS 7-360-A4S	1.2	2.64
ELS 7-880-A	1.2	2.64
ELS 7-880-A10S	1.2	2.64
ELS 15-480-A	1.2	2.64
ELS 15-480-A4S	1.2	2.64
ELS 30-300-A	1.5	3.31
ELS 45-180-A	1.5	3.31
ELS 60-160-A	2.0	4.41
ELC 7-360-A4S-W	1.2	2.64
ELC 7-880-A-W	1.2	2.64
ELC 15-480-A-W	1.2	2.64
ELC 30-300-A-W	1.5	3.31
ELC 45-180-A-W	1.5	3.31
ELC 60-160-A-W	2.0	4.41

 The weight is given without the battery pack.

**Wireless Communication specifications**

Band with maximum radio output power



2400 MHz - 2483,5 MHz	17.6 dBm
5150 MHz - 5350 MHz	16.6 dBm
5470 MHz - 5725 MHz	17.3 dBm
5725 MHz - 5875 MHz	12.1 dBm

Type	IEEE 802.11 a/b/g/n
RED IEEE 802.11 b/g/n	2400 - 2483.5 MHz 20 dBm (100 mW).
Maximum RF output power	< 20 dBm

### **Storage and use conditions**

Storage temperature	-20 to +70 °C (-4 to +158 F)
Operating temperature	0 to 40 °C (32 to 104 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**

#### **Optional accessories**

eDOCK	6158119760
Speed Setting Module	6159368290
Set of colour rings (white, yellow, orange, green, blue, purple, grey, black)	61539701145
Protective cover for tool body - black	6152110040
Protective cover for tool body - blue	6152110250
Protective cover for tool body - red	6152110260
Protective cover for tool body - grey	6152110270
Protective cover for angle-head < 15 Nm - black	6153976720
Protective cover for angle-head 30 Nm - black	6155732140
Protective cover for angle-head 45 Nm - black	6155732150
Protective cover for angle-head 60 Nm - black	6152110050

#### **WIFI Access point**

A WI-FI access point is required to enable cordless tools to communicate with systems. Desoutter models are as follows:

WI-FI access point 802.11N-US	6158114175
WI-FI access point 802.11N-EU	6158114195
WI-FI access point 802.11N-A	6158116505

There are no instructions in this manual about how to install a WI-FI access point.

If you are not familiar with this type of installation, we recommend you to contact your Desoutter representative.

### Required accessories

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

### 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

Item	Desoutter default parameter	Other possible values
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	-
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

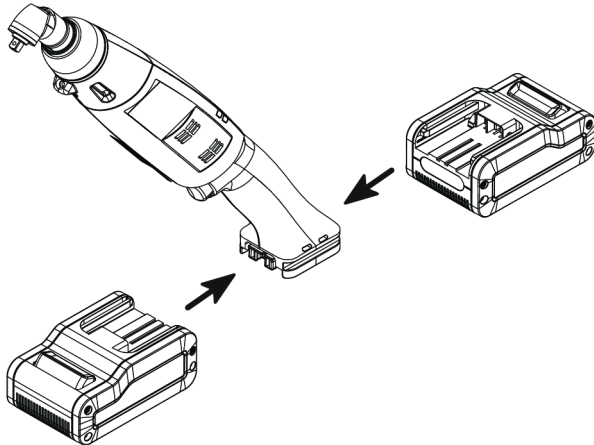
Channel	Radio band	FCC North America	ETSI Europe	TELEC Japan	Worldwide
36	U-NII-1	x	x	x	x
40		x	x	x	x
44		x	x	x	x
48		x	x	x	x

Channel	Radio band	FCC North America	ETSI Europe	TELEC Japan	Worldwide
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	U-NII-3	x	x	x	x
136		x	x	x	x
140		x	x	x	x
149		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

#### 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.

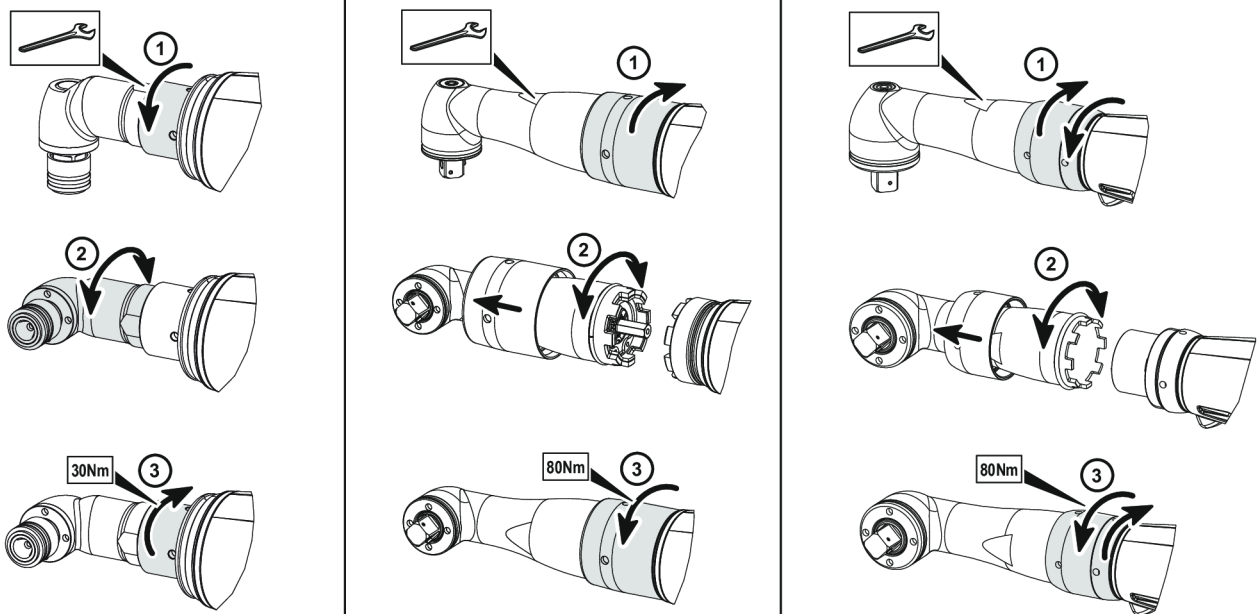
When the tool is powered on, tool LEDs are blinking.

**NOTICE** Usage recommendations for battery packs  
Ensure a longer service life of the battery pack.

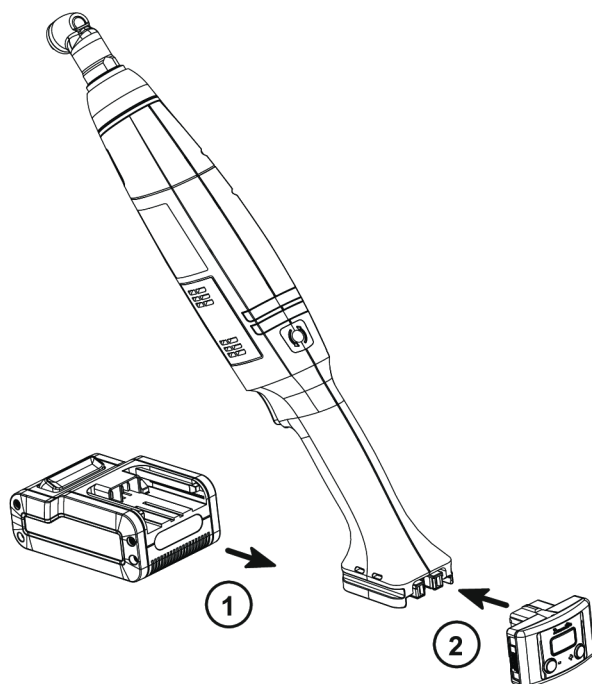
- Unplug the battery pack when the tool is not used.

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

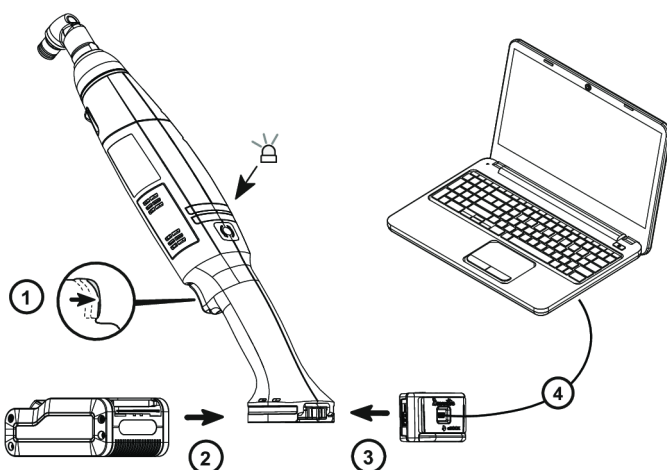
#### Changing the angle head orientation



## How to connect the tool to Speed Setting Module



## How to connect ELC tools to CVIMONITOR



1. Keep the trigger pressed.
2. Plug the battery pack. The LED is blinking green.
3. Plug the eDOCK to the tool.
4. Connect the eDOCK cable to any USB port of the computer.

Launch CVIMONITOR from the computer.

Click **E-LIT WIFI** in the top bar.

Click **Select** to select the tool.

## How to install optional accessories

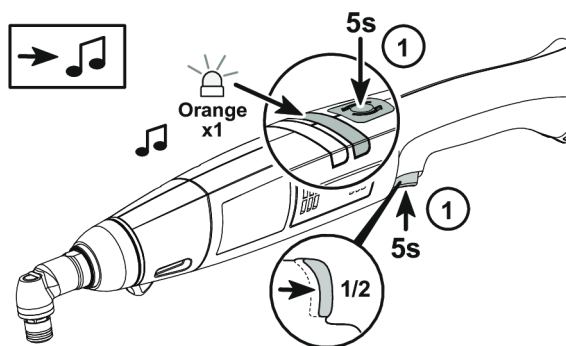
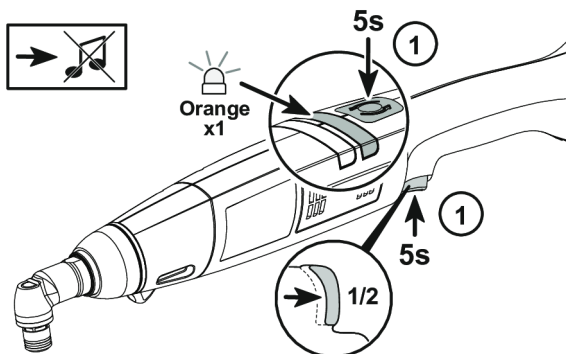
Refer to the user manual dedicated to the accessory available at <https://www.desouttertools.com/resource-centre>.

# Operation

## Configuration Instructions

### How to configure the tool

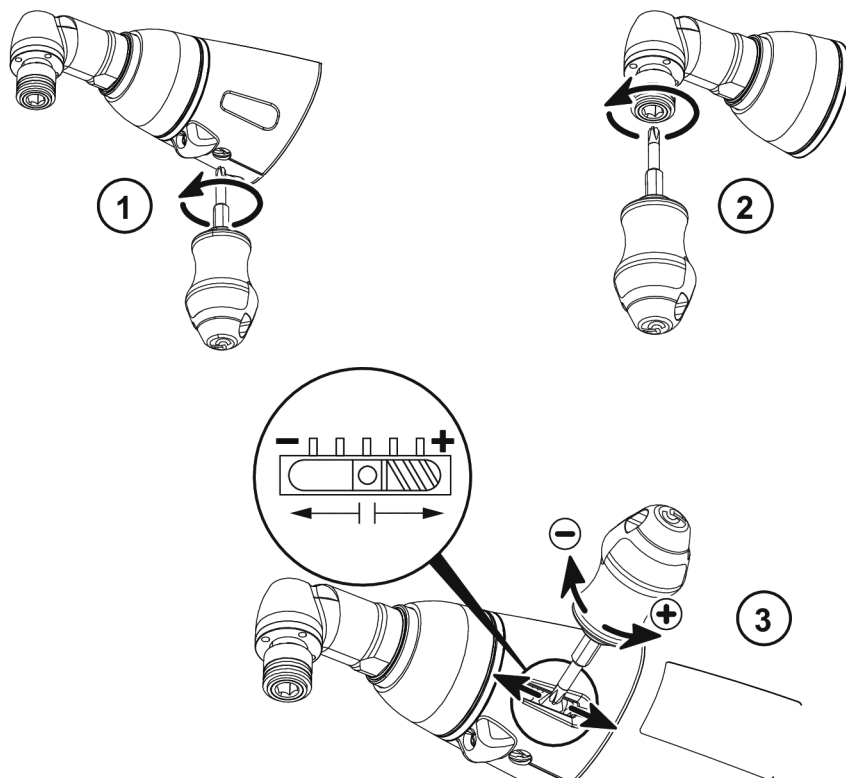
#### How to disable/enable the buzzer



#### Adjusting the torque

**i** A black cover protects the clutch mechanism from involuntary action.

Remove the battery pack.



1. Turn the screw 90°, the black cover will open and the clutch will be visible.
2. Use the key (delivered in the packaging box) to turn the clutch to the position where the adjustment hole is visible.
3. Use the key to increase or reduce the torque ("+" and "-" are marked on the key).

Close the cover.

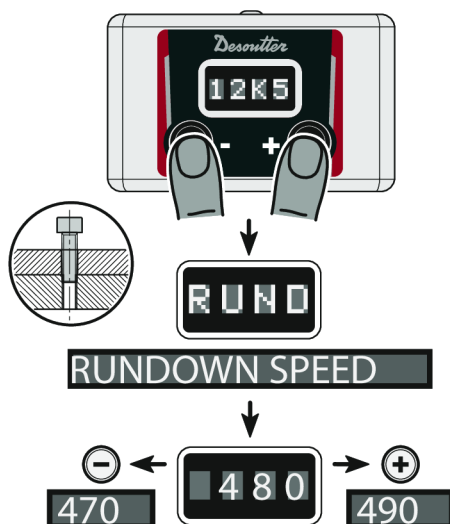
### Adjusting the speed

Plug the battery pack.

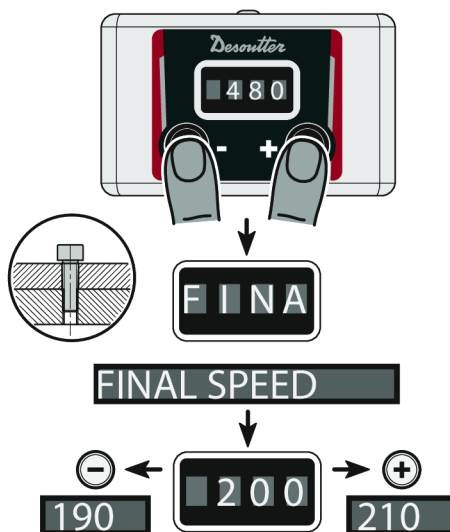
Connect the tool to Speed Setting Module.

Use the buttons "+" and "-" to scroll the menus.

#### Rundown speed

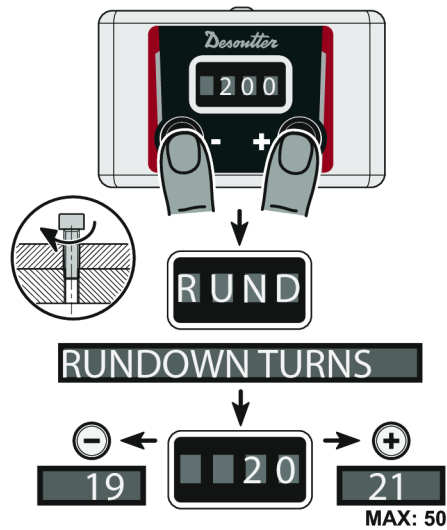


#### Final speed



#### Rundown turns



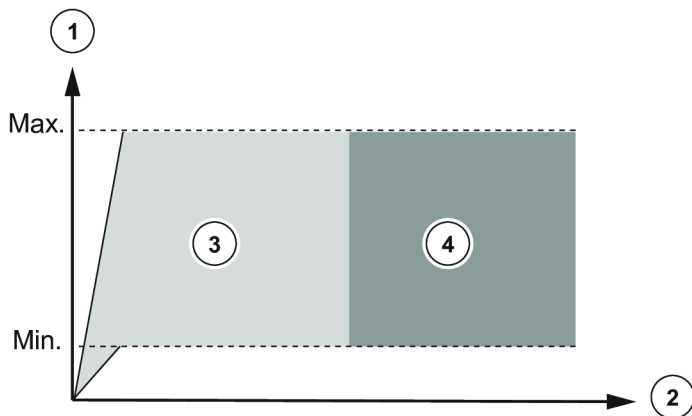


When settings are done, remove the Speed Setting Module.

Unplug and plug the battery pack.

### Specific speed settings according to the battery pack voltage

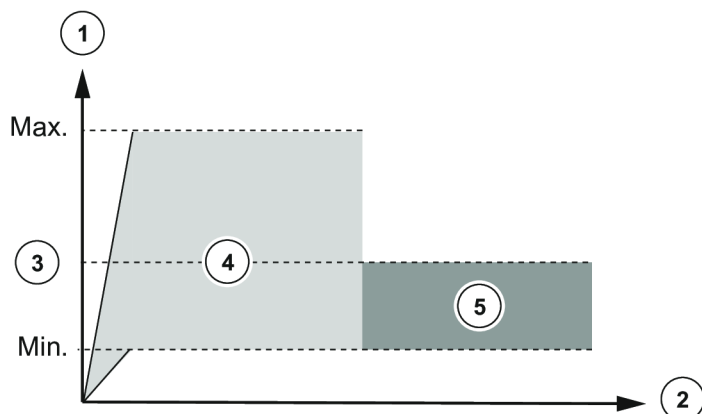
For an 18 V tool, the rundown speed and tightening adjustment range is up to 100% of the maximum speed.



1	Speed
2	Number of revolutions
3	Rundown speed
4	Final speed

For a 36 V tool, the rundown speed can be done at 100% of the maximum speed.

It is recommended to limit the tightening to 50% of the maximum tool speed (to prevent the tool from overheating at high torque).

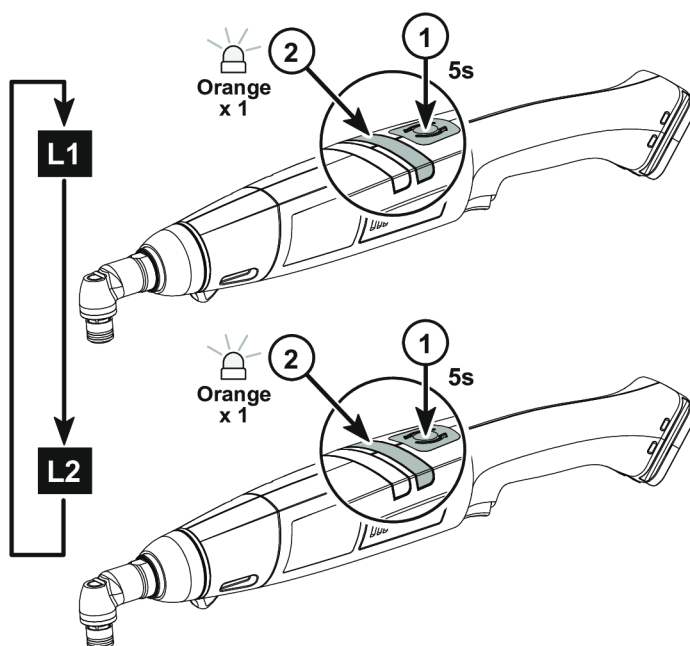


1	Speed
2	Number of revolutions
3	50 % of max. speed
4	Rundown speed
5	Final speed

### Adjusting the speed with CVI CONFIG (for ELC tools)

Use CVI CONFIG to adjust the tool speeds.

### How to set up the reverse mode



L1: Mode 1: one touch reverse (by default)

L2: Mode 2: permanent reverse

### How to disable NOK reports

This feature is available in E-LIT CONFIG for ELS tools.

This feature is available in CVI CONFIG for ELC tools.

### How to quickly prepare a spare tool with customized settings

Once the settings are done, change the color of the identification ring to identify the tool settings.

Unscrew/screw the output drive to change the ring.

### How to change network parameters

Refer to chapter *How to connect ELC tools to CVIMONITOR* [Page 14].



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].

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

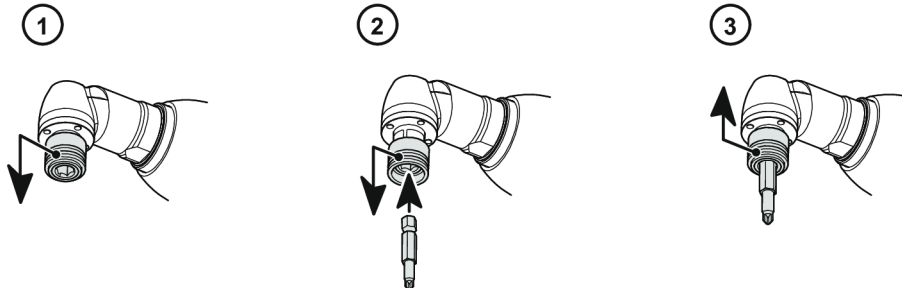


Click this icon to write the new parameters into the tool.

## Operating Instructions

### How to use the tool

#### Changing bits



**i** The new bit is automatically locked when you release the ring.

#### Starting the tool

Fit the tool with a suitable bit.

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.

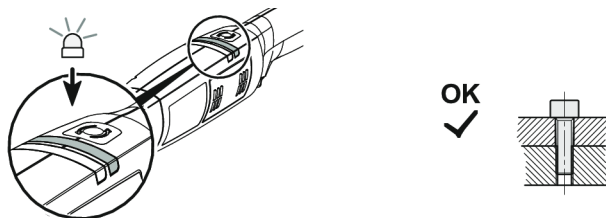
- Make sure that the tool is in perfect working order and the system is programmed correctly.

Press the trigger to start the tool.

#### Reporting LEDs

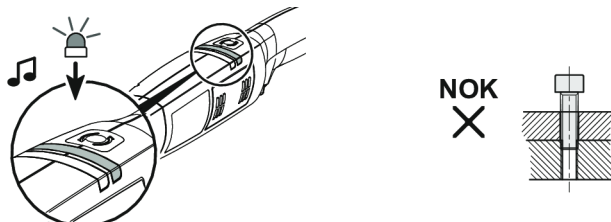
##### Tightening OK

The green LED is flashing once.



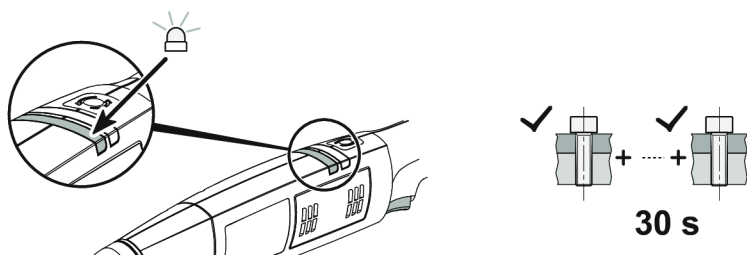
##### Tightening NOK

The red LED is flashing and a sound is emitted during 2 seconds.

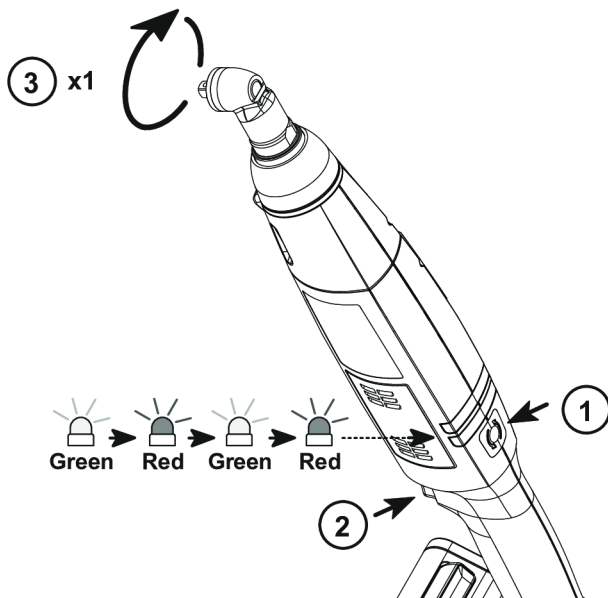


##### Batch OK (for ELC tools)

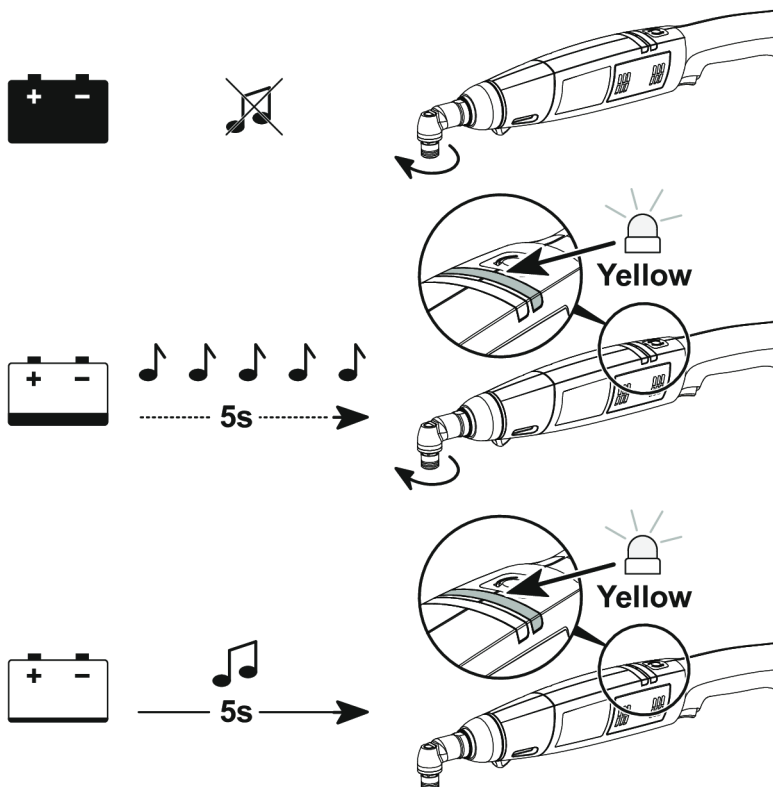
The green LED is flashing 3 times.



**How to reverse the rotation**

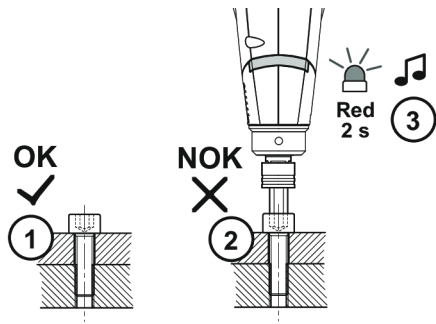


**Low battery status after each tightening**



**Rehit alarm**

This feature is used to prevent the operator from re-tightening the assembly. It can be set up by using E-LIT CONFIG for ELS tools and CVI CONFIG for ELC tools.



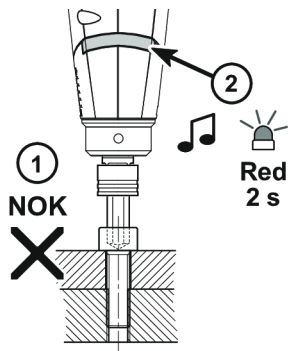
1. The assembly has been tightened already and the report is OK.
2. When the operator wants to tighten again, the clutch immediately operates and there is no significant tightening angle. The LED is flashing in red during 2 seconds and a sound is emitted.

### **Cross thread detection alarm**

**(i)** Available for ELC tools only.

This feature is used to warn that a problem has occurred on the tightening. The report is NOK.

This feature can be set up by using CVI CONFIG.



Enter the minimum number of turns to be done before clutching.

If the clutch shuts off before this number, the report is NOK.

If the clutch shuts off after, the report is OK.

### **How to wake up the tool**

Press the trigger.

Unplug and plug the battery pack.

The tool is shut down after 120 minutes of inactivity.

For Wi-Fi tools, the blue LED turns off.

## Service

### How to read tool counters with Speed Setting Module

Connect the tool to Speed Setting Module.

Plug the battery pack.

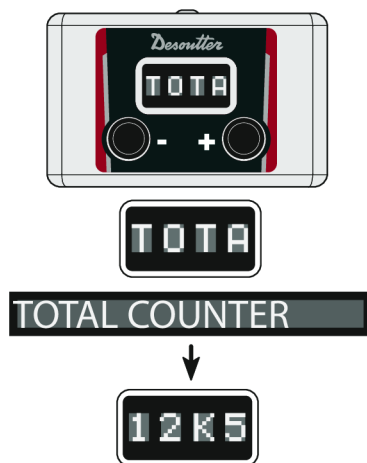
Use the buttons "+" and "-" to scroll the menus.

**i** K stands for 1000.  
For example: 12K5 means 12500.

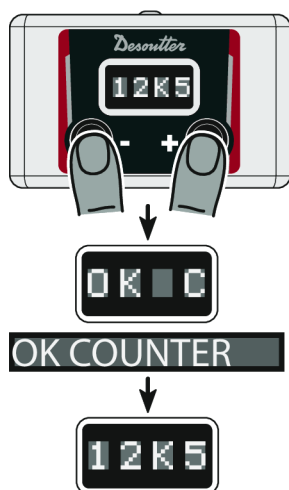
M stands for 1.000.000.  
For example: 1M85 means 1.857.227.

#### Total counter

This counter is the number of tightenings (OK or NOK) run by the tool since the manufacturing date.



#### Counter of OK reports



This counter is the number of tightenings (OK) run by the tool since the manufacturing date.

### Tool counters and maintenance alert with CVIMONITOR

**i** Available for ELC tools only.



Click this icon.

Click **Counters**.

Go to the bottom of the screen and click **Read all counters**.

A green tick indicates the reading is successful.

### **Maintenance alert**

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.

### ***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.

### ***Maintenance Instructions***

#### **Clutch maintenance**

 For ELC tools only

Perform the maintenance of the clutch every 500,000 cycles.

Contact your local Desoutter representative for the maintenance procedure.

#### ***Lubrication Instructions***

#### **Clutch lubrication alarm**

It is recommended to lubricate the clutch and the gearbox every 500,000 tightenings for 18 V tools and 250,000 tightenings for 36 V tools.

When lubrication is required, the buzzer sends an alarm and the reporting LED blinks in orange.

Contact your Desoutter representative to get more information and support.

### ***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.

#### **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**

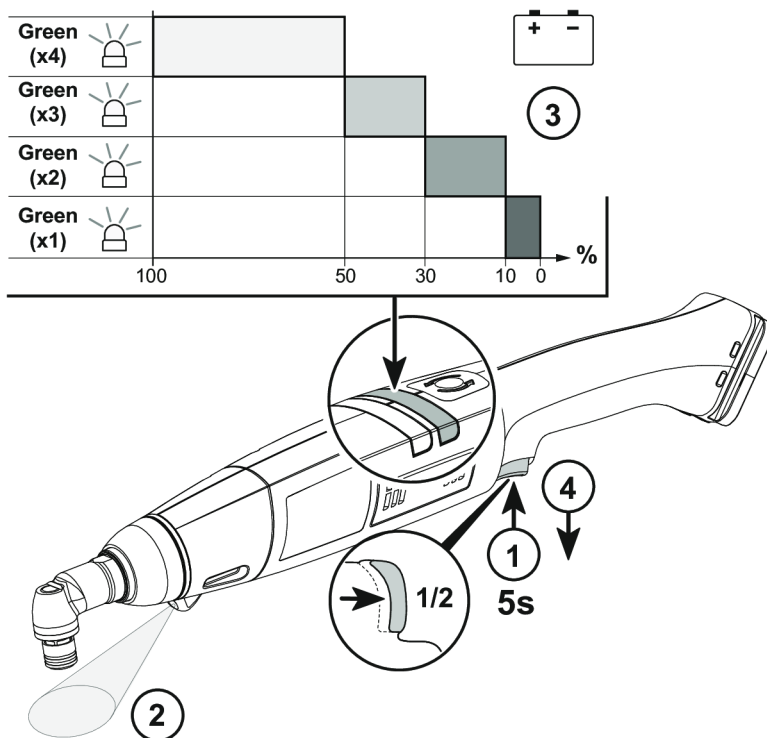
 Use E-LIT LOADER software for ELS tools.

Use CVIMONITOR software for ELC tools.

Contact your Desoutter representative to get the last firmware version.

## Troubleshooting

### Low battery alarm



### LED behaviour

#### Backup alarms

	Description	Solution
At start-up, after switch-off of the white LED, the LED flashes 3 times in red.	Backup configuration has been restored.	The tool can be used without any restriction.
At start-up, after switch-off of the white LED, the LED flashes 8 times in red.	Main configuration has been restored from the backup configuration.	Check the speed of the tool. Contact our customer service.
Permanent flashing of the LED in red (6 flashes/second).	The tool has switched to default settings.	Speed and counters may be affected. If the problem persists when the battery is plugged in, contact our customer service.
Permanent flashing of the LED in red (3 flashes/second).	All configurations have been corrupted. The tool is locked.	Contact our customer service.

#### Green LED behaviour

	Description	Solution
2 flashing lights	The tool is locked.	Check if Pset or Assembly Process has been selected on CONNECT: check the configuration.
3 flashing lights	Batch completed. The tool is locked.	Re-start the Assembly Process to unlock the tool.
4 flashing lights	The tool storage of results is full. The tool is locked.	Re-synchronize the tool with CONNECT to unload results.



**Blue LED behaviour**

	Description	Solution
OFF	The communication is lost or not established.	In case of not established communication, check the WI-FI settings of the tool and CONNECT.
flashing	The synchronisation is in progress. CONNECT is currently receiving results from ELC tools.	-
steady	The communication is established with CONNECT.	-

**Red LED behaviour**

	Description	Solution
4 flashing lights	Clutch sensor error	If the fault still appears, contact our customer service.
5 flashing lights	Exceeding of the maximum temperature (70°C)	Wait for the tool cool down. If the fault still appears, contact our customer service.
6 flashing lights	Tool overheating	The power requested is too big. Do not use the tool as a drilling machine. If the fault still appears, contact our customer service.
7 flashing lights	Battery voltage fault	Make sure that the tool is adapted for the battery used. If the fault still appears, contact our customer service.
8 flashing lights	Over-current on the power circuit	This problem can result from a use requiring a too big power for the tool. If the fault still appears, contact our customer service.

**Specific LED pattern**

	Description	Solution
3 yellow + 3 red flashing lights	Hardware channel	An error has been detected either on trigger sensor or temperature sensor. If the fault still appears, contact our customer service.
2 x 10 orange flashing lights	Preventive maintenance	The tool has reached the Preventive maintenance level.

**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.
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.

Number	Description	Procedure
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.
E009	Tool invalid parameters	1- Check the tool compatibility. 2- The tool memory cannot be read or is invalid. 3- The tool needs maintenance. If the problem occurs again, contact your Desoutter representative for support.
E012	Tool EEPROM error	1- The tool memory cannot be read or is invalid. 2- The tool needs maintenance. If the problem occurs again, contact your Desoutter representative for support.
E018	Torque out of range !	1- The target torque value is above the tool maximum torque. 2- Check Pset settings with tool characteristics.
E029	The battery is empty.	1- The battery pack is discharged. The tool cannot tighten. 2- Recharge the battery pack.
E031	Battery error	1- Abnormal battery voltage. The tool cannot tighten. 2- Recharge the battery pack. If the problem occurs again, replace the battery pack.
E032	Tool display error	1- Board display malfunction. 2- Contact your Desoutter representative for support.
E034	Tool memory error	1- The tool memory does not work properly. 2- Contact your Desoutter representative for support.
E035	Tool memory locked	1- The tool memory is locked to protect old data from rewriting. 2- Connect the tool to the computer via eDOCK to retrieve old data.
E037	Tool trigger error	1- The tool trigger does not work properly. 2- Check and clean the trigger. If the problem occurs again, contact your Desoutter representative for support.
E045	Abnormal battery voltage	1- Check the battery pack. 2- This error can be due to charger malfunction or end of life battery.
E047	Battery is too low.	1- Check the battery pack. 2- If the problem occurs again, replace the battery pack.
E048	Battery type not allowed	1- Battery type not allowed. 2- Replace the battery pack or your configuration.
E223	Drive init error	1- Software failure. 2- Restart the system. 3- If the problem occurs again, contact your Desoutter representative for support.

Number	Description	Procedure
E227	Motor stalled	1- Motor stalled (could be missing phase, wrong motor tune or power electronics failure) 2- Try once again. 3- If the problem occurs again, contact your Desoutter representative for support.
E228	Drive error	1- Software failure. 2- Restart the system. 3- If the problem occurs again, contact your Desoutter representative for support.







Original instructions

Founded in 1914 and headquartered in France, Desoutter Industrial Tools is a global leader in electric and pneumatic assembly tools serving a wide range of assembly and manufacturing operations, including Aerospace, Automotive, Light and Heavy Vehicles, Off-Road, General Industry.

Desoutter offers a comprehensive range of Solutions -tools, service and projects- to meet the specific demands of local and global customers in over 170 countries.

The company designs, develops and delivers innovative quality industrial tool solutions, including Air and Electric Screwdrivers, Advanced Assembly Tools, Advanced Drilling Units, Air Motors and Torque Measurement Systems.

**Find more on [www.desouttertools.com](http://www.desouttertools.com)**



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