

Electric Pistol Nutrunner

Product Instructions

Model

EPBC8-1800-4Q
EPBC8-1800-10S
EPBC14-900-4Q
EPBC14-900-10S
EPBC17-700-4Q
EPBC17-700-10S

Part number

6151659000
6151659040
6151659800
6151659790
6151659060
6151659020



Download the latest version of this document at
http://www.desouttertools.com/info/6159929450_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

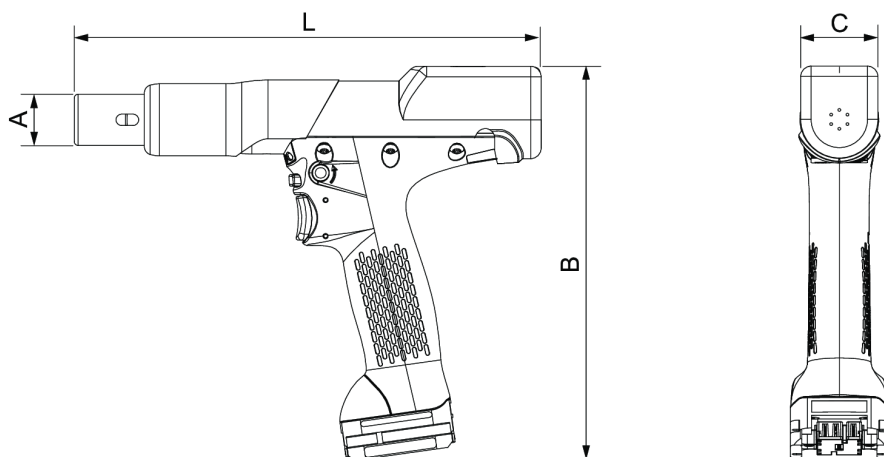
Information concerning our Products, Accessories, Spare Parts and Published Matters can be found on the Desoutter website.

Please visit: www.desouttertools.com.

Information about spare parts

Exploded views and spare parts lists are available in Service Link at www.desouttertools.com.

EPBC



with protective cover - mm

L	A	B	C
247	38	208	41

without protective cover - mm

L	A	B	C
227	32	206	38

CAD files

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

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

Overview

General overview

EPBC tools are wireless pistol nutrunners.

They can be equipped with a barcode reader or a tracker.

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

On delivery, the tool display is protected by a password.

Psets and Assembly Processes can be set up with:

- Tool display
- CVI3 Vision
- CONNECT
- CVI CONFIG

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

Tool settings can be done via CVI CONFIG.

Tool maintenance can be done with eDOCK and CVIMONITOR software.

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

The tool behaviour is then the same as an EPBA tool.

The following models are equipped with *eCompass* feature.

- EPBC 8-1800-4Q
- EPBC 8-1800-10S
- EPBC 14-900-4Q
- EPBC 14-900-10S
- EPBC 17-700-4Q
- EPBC 17-700-10S

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.

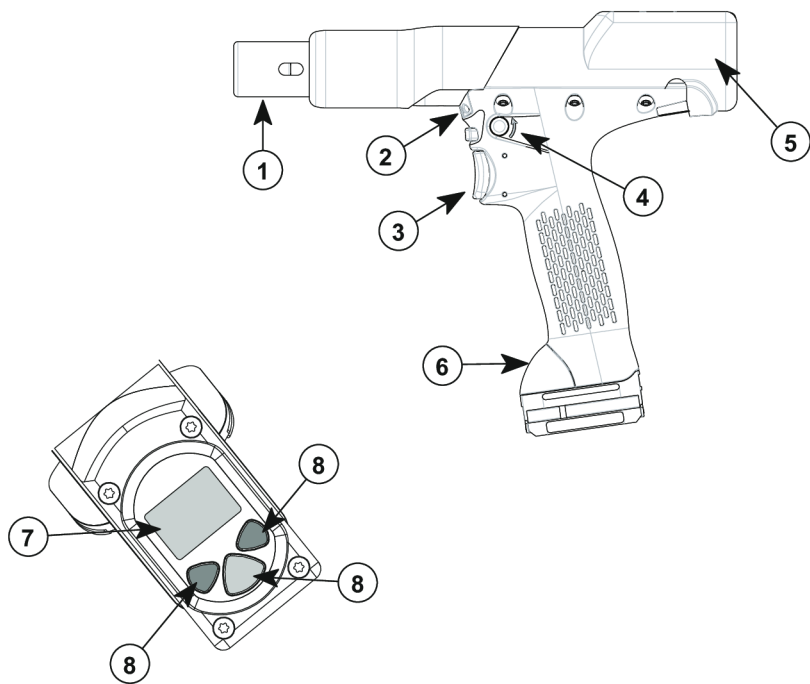
Moreover, an angle range (tool angle limits) is defined to stop the tightening if the operator movement is outside this range.

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 with CVI CONFIG.



Product description



1	Output drive
2	Front light
3	Trigger
4	Reverse button
5	Reporting LEDs
6	Communication module
7	Display
8	Programming buttons

Technical data

Voltage (V)

18 V  or 36 V 

Output drive

Model	Type
EPBx 8-1800-10S	Sq. 3/8"
EPBx 8-1800-4Q	Hex. 1/4" F
EPBx 14-900-10S	Sq. 3/8"
EPBx 14-900-4Q	Hex. 1/4" F
EPBx 17-700-10S	Sq. 3/8"
EPBx 17-700-4Q	Hex. 1/4" F

 EPBx stands for EPB/EPBA/EPBC.

Torque range (Nm)

18V 2.1Ah minimum

Model	Min. / Nominal / Max.
EPBC8-1800-10S	1.5 / 7 / 8

Model	Min. / Nominal / Max.
EPBC8-1800-4Q	1.5 / 7 / 8
EPBC14-900-10S	4 / 12 / 14
EPBC14-900-4Q	4 / 12 / 14
EPBC17-700-10S	7 / 15 / 17
EPBC17-700-4Q	7 / 15 / 17

Torque range (ft.lb)

18V 2.1Ah minimum

Model	Min. / Nominal / Max.
EPBC8-1800-10S	1.10 / 5.16 / 5.90
EPBC8-1800-4Q	1.10 / 5.16 / 5.90
EPBC14-900-10S	2.95 / 8.85 / 10.33
EPBC14-900-4Q	2.95 / 8.85 / 10.33
EPBC17-700-10S	5.16 / 11.06 / 12.54
EPBC17-700-4Q	5.16 / 11.06 / 12.54

Rated speed (rpm)

Model	with 36 V	with 18 V
EPBx 8-1800-10S	1800	900
EPBx 8-1800-4Q	1800	900
EPBx 14-900-10S	900	540
EPBx 14-900-4Q	900	540
EPBx 17-700-10S	700	400
EPBx 17-700-4Q	700	400

i EPBx stands for EPB/EPBA.

Weight

Model	(kg)	(lb)
EPBx 8-1800-10S	1	2.20
EPBx 8-1800-4Q	1	2.20
EPBx 14-900-10S	1	2.20
EPBx 14-900-4Q	1	2.20
EPBx 17-700-10S	1	2.20
EPBx 17-700-4Q	1	2.20

i EPBx stands for EPB/EPBA/EPBC.

i The weight is given without the battery pack.

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
Side handle	6153970160
Tracker	6158132600

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		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

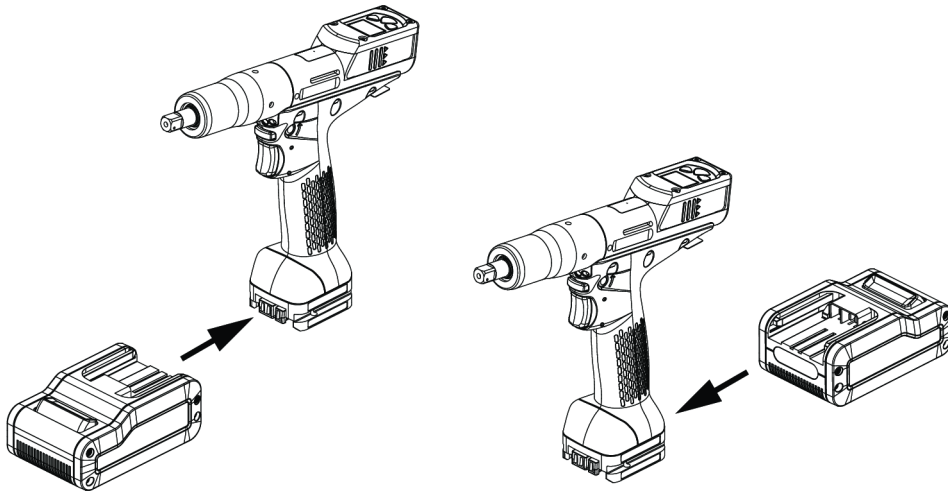
Default tool Ethernet configuration

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

Installation

Installation Instructions

Inserting the battery pack

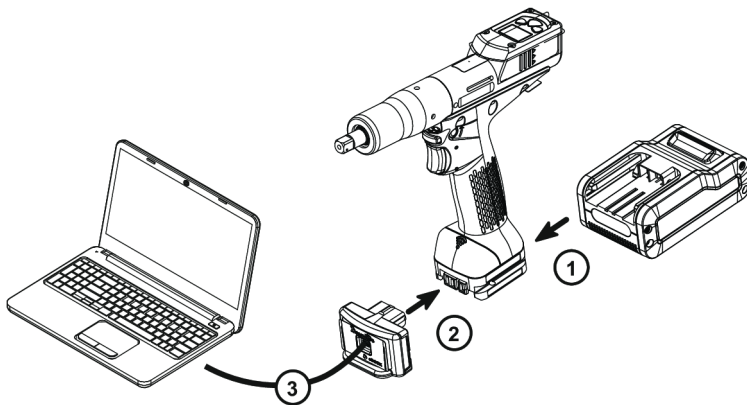


Insert the battery pack in front or behind the tool until a locking sound can be clearly heard.
 There is no ON/OFF switch: the tool is ready to operate as soon as a battery pack is mounted.
 When the tool is powered on, tool LEDs are blinking.
NOTICE Usage recommendations for battery packs
 Ensure a 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.

How to connect the tool to CVIMONITOR



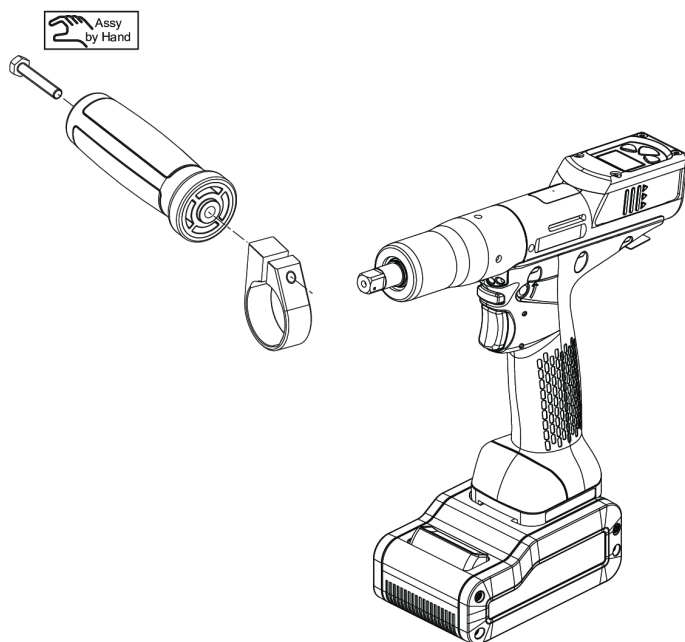
Plug a battery pack to the tool.
 Connect eDOCK to the tool and to the USB port of the computer.

- (i) Respect the connection order.

Launch CVIMONITOR from the computer desktop.
 Click **Tool** in the top bar.
 Click **Select** to select the tool.

Mounting the side handle

Follow the instructions below.



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



Icons and buttons

	The password is enabled.
	The password is disabled.
	Press the button "Validate/Run reverse".
	Press the right button.
	Press the left button.
	"Validate/Run reverse" button
	Right button
	Left button
	Validate
	Save
	Quit
	Pset
	The sound is disabled.
	The sound is enabled.
	The battery pack is full.
	The battery pack is low.

Additional icons and buttons

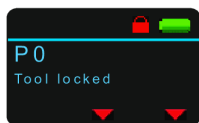
	Results and curves are stored in the memory board. They are sent to the system regularly.
	Blinking The synchronization between the tool and the system is in progress.
	Steady The tool is connected to the system.
	Steady The tool is not connected to the system. Check the cable between the system and the access point. Check the communication settings.

How to disable the passwords

i On delivery, passwords are enabled (**1 by default**).

Pset and Maintenance passwords are used to protect settings against hazardous changes.

A red padlock is displayed on the top line of the main screen.



Press this button during 2 seconds.



Press this button to reach **Configuration**.

Go to **Enter password**, then **Pset password**, use the buttons to display "1", save and validate. The red padlock turns green.

i The procedure is the same to disable the Maintenance password.

How to set up new passwords

i To set new passwords, current passwords must be disabled and the green padlock displayed.

Go to the main screen.



Press this button during 2 seconds.



Press this button to reach **Configuration**.

Go to **Set password**, then **Pset password**, use the buttons to enter a figure from 0 to 999, save and validate.

i Setting the password to 0 will disable all password protections.

i The procedure is the same to set up a new Maintenance password.

Sound, torque unit

Sound

The tool can emit sounds to alert the operator in case of problems or events that may happen during the tightening operation.

Sounds can be set for the following topics:

- tightening out of tolerances
- calibration procedure
- preventive maintenance
- low battery
- hardware failure
- maintenance

i On tool delivery, the sound is disabled.

Go to CVI CONFIG to enable the feature.



Click this icon to update the product.

Torque unit

The following torque units are available:

- Nm
- ft.lb
- in.lb
- kg.m
- kg.cm
- oz.in
- dNm

On tool delivery, the torque unit is set to "Nm" by default.

Go to CVI CONFIG to change the torque unit.



Click this icon to update the product.

How to set up the reverse mode

On tool delivery, the "Reverse" function is disabled.

Go to CVI CONFIG to set up reverse settings.

How to visualize network parameters

Go to the tool display.



Press this button during 2 seconds.



Press this button to reach **Maintenance / Network**.

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

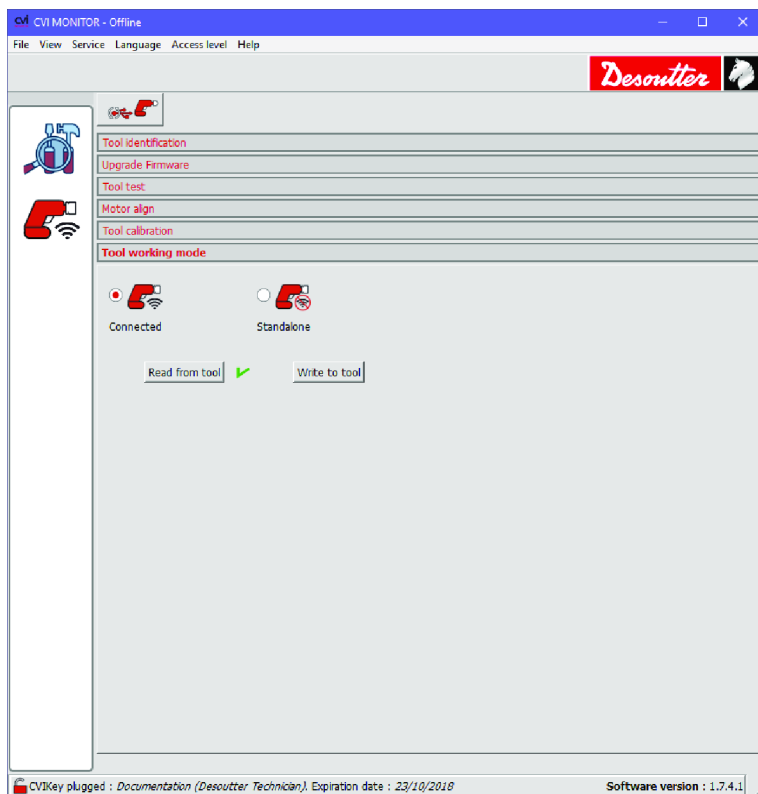
i Changing the tool working mode will erase the Pset, the results and curves present in the tool memory.

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

The tool behaviour is the same as an EABA or EPBA tool.

6 Psets are available.

Refer to the Product Instructions of the tool available at <https://www.desouttertools.com/resource-centre>.

How to change network parameters

Via CVIMONITOR and eDOCK

Refer to chapter *How to connect the tool to CVIMONITOR* [Page 11].



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 8].


-  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 set up Psets and Assembly Processes

On delivery, the tool has no tightening process.

Launch CVI CONFIG software to create Psets and Assembly Processes and transfer the configuration to the tool.

-  A simple Pset can also be created from the display of the system the tool is connected to.

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

P0 is displayed on the tool screen and the tool is locked.




A **Pset** is shown by this icon.

A Pset is a tightening operation combining one or several steps, each step describing a function.

The tool will execute the steps one after the other in the given order.

Content of the steps and the order can be changed at any time.

-  The minimum to run the tool is 1 Pset containing 1 step.




An Assembly Process is commonly called **AP** and is shown by this icon.

The Assembly Process available in products and systems consists in executing a Pset a certain number of times or unlimited. This feature is named **Batch**.

Create as many Psets / Assembly Processes as you want.

For each of them, enter a description which will be displayed on the tool screen.

Transfer the configuration to the tool.

-  If the transfer fails, unplug and plug the battery pack. Re-start the transfer.

Operating Instructions

How to use the tool

How to select the Pset to run

Go to CVI CONFIG and check that "Default Pset selection source" in the configuration of the Tightening Unit is set to "Tool display".

From the tool main screen, press the right button briefly. The current Pset is displayed.

Press OK. The Pset number turns orange.

Use the left or right button to scroll through the list.

Press OK to select the displayed Pset. The Pset is now in blue.

Once the Pset is selected and the tool is ready, the Pset number turns green.

Press the trigger to start the process.

-  When out of tolerances, a sound can be heard (if configured).

See below some examples of the Pset status on the tool display.

Icon status	Description
P002	Pset 2 is the next Pset to run. The tool is ready to start.
P000	There is no Pset selected. The tool is locked. Select a Pset.
P004	Pset 4 is selected. The tool is locked. The tool may be expecting an external order.

How to select the Assembly Process to run

Go to CVI CONFIG.

Check that:

"Running mode" in the configuration of the Tightening Unit is set to "Assembly Process".

Start condition of the Assembly Process is set to "Tool display".

From the tool main screen, **press and hold** the right button.

Press OK. The Assembly Process number turns orange.

Use the left or right button to scroll the list.

Press OK to select the displayed Assembly Process. The number is now in blue.

Once the Assembly Process is selected and the tool ready, the Pset number turns green.

Press the trigger to start the process.

Starting the tool

Fit the tool with a suitable socket.

Select the appropriate Pset.

Hold the tool by means of the handle and apply to the fastener to be tightened.

WARNING Risk Of Injury

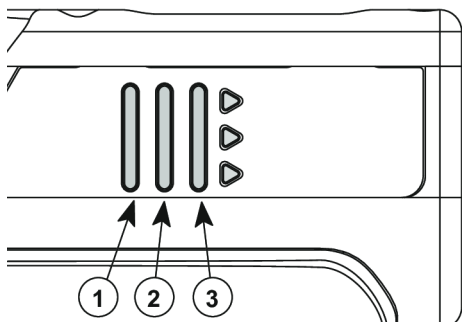
As the reaction force increases in proportion to the tightening torque, there is a risk of severe bodily injury of the operator as a result of unexpected behavior of the tool.

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

Press the trigger to start the tool.

Tightening status and LED reporting

Reporting LEDs



1	Red
2	Green
3	Yellow

How to read the tightening report

LED color	Description	Action to do
Green	Accept report	None

LED color	Description	Action to do
Yellow	Incomplete rundown	Tighten again.
Yellow and red (orange)	Reject report	Loosen and tighten again.
Red	Above max. limits	Remove and replace the fastener.

How to have the batch count on the tool display

Go to the system/tightening unit/tool settings.

Go to the tightening unit.

Check that "Batch count" or "Ellipse" is ticked in the menu "Display parameters".

When the process is done, results are displayed.

Torque and angle values



Batch count



Ellipse

The ellipse represents the batches.

In this example, 3 tightenings out of 4 are completed.



How to interact on the Assembly Process



Press the left button to **abort** the Assembly Process.

The following actions are protected by the "Maintenance" password.

To have them available, enter the Maintenance password in the "Configuration" menu.

During the Assembly Process, press the **left** button to activate the actions.



Batch increment

To **skip** one bolt.



Batch decrement

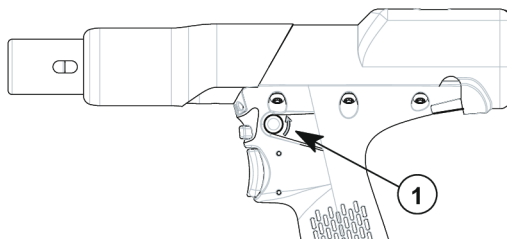
To **redo** the last bolt.



Batch reset

To **restart** the complete batch.

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 smooth the tool stop

❗ The "Ergostop" function must be disabled for tightening tests or certification on tightening benches.

Ergostop allows a smoother tool stop to reduce the torque reaction on the operator.

On tool delivery, this feature is disabled.

Go to CVI CONFIG to enable the feature.

How to wake up the tool

The tool display switches off automatically after 2 minutes of inactivity.

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.

Refer to "Power off" configurable on tool display or with CVI CONFIG.

Unplug and plug the battery pack.

Service

Firmware version on tool display

The firmware version of the tool is displayed in the menu "Maintenance/Tool".
CX.YY.ZZ.

Tool information from tool display

Go to "Maintenance/Tool" menu to get the following information:

Total counter	Number of tightenings since the manufacturing of the tool.
Battery	The current voltage value is displayed. The "Low battery" message is displayed when lower than 32 V. At 31 V, the tool stops.
Serial number	18B64685 for example.

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.

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

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.

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.

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

Service alarm on tool display

An alarm can be displayed when service is required.



This icon is displayed.

One of the service levels is displayed (see below). When no service is required, "none" is displayed.

A sound is heard.

It is possible to set 3 service levels:

Level	Number of tightenings	Service level
1	25 000	Calibration
2	250 000	Intermediate (for heavy duty applications only)
3	500 000	Standard

Go to the main screen.



Press this button during 2 seconds.



Press this button to reach **Maintenance**.

Go to **Tool**, then **Service alarm**, select a level, save and validate.



- Once the service is performed, reset the indicators.
Go to the "Maintenance/Service alarm" menu and press OK.

Calibration via tool display

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

This function is set in the "Maintenance" menu.

1. Enter the Maintenance password in the "Configuration" menu.
2. Insert a torque transducer in line with the tool and connect it to any measuring unit from the Desoutter range.
3. Go to "Maintenance/Calibration".
Select the number of tightenings required to execute the calibration and press OK.
Run a Pset the number of times already configured (at max. torque and with an angle above 180° (at low speed)).
Go on with other tightenings by pressing the trigger.
4. The average torque value is displayed in white.
On the line below, enter the average torque value measured by the measuring unit ($\pm 20\%$ vs the tool nominal torque are allowed).
5. Use the left/right buttons to increase or decrease the value.

Press OK and save your data.

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**.

i 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**.

i 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 tool is locked

Display	Description	Solution
	There is no communication with the system	Check WI-FI parameters, IP addresses and communication port in the system, tool and WI-FI access point.
	The message "Tool locked" is displayed.	Check the settings of the tightening processes (Pset and Assembly Process).
	The message "Tool error" is displayed.	Press the trigger to get more information.
	The display remains black. None of the LEDs are turned on. The tool is not able to start.	Try first to wake up the tool. Replace the battery pack.

Contact your Desoutter representative to get more information and support.

List of user infos related to the tools

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.

Number	Description	Procedure
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.
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 back 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.

Number	Description	Procedure
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.
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.

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.

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