

## SSW 18 LTX 600 SSW 18 LTX 400 BL

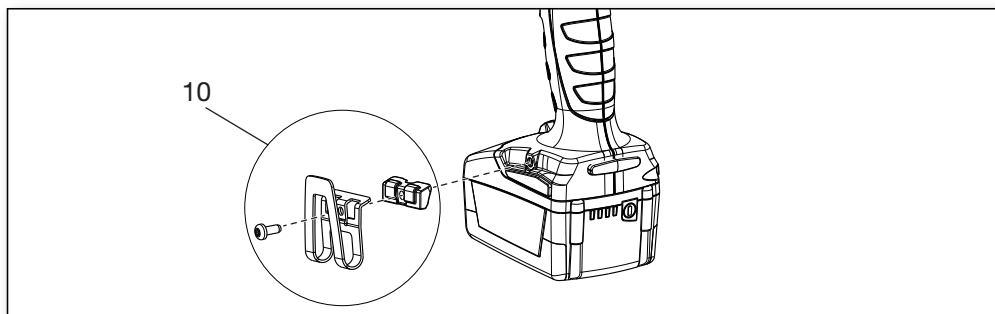
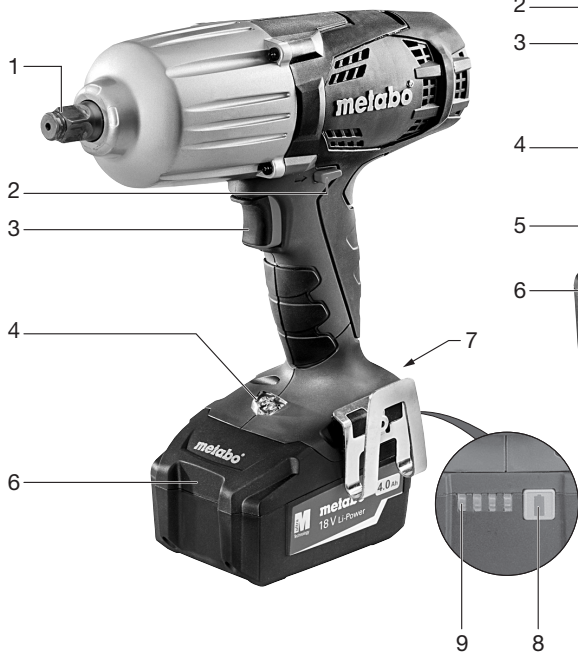


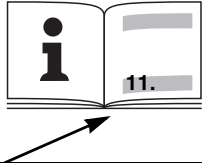
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## SSW 18 LTX 400 BL



## SSW 18 LTX 600



		<b>SSW 18 LTX 600</b> *1) Serial Number: 02198..	<b>SSW 18 LTX 400 BL</b> *1) Serial Number: 02205..
		18	18
<b>U</b>	<b>V</b>		
<b>n<sub>0</sub></b>	<b>/min, rpm</b>	0-1600	0-2150
<b>S</b>	<b>/min, bpm</b>	2200	4250
<b>H</b>	-	<input type="checkbox"/> 1/2" (12,7 mm)	<input type="checkbox"/> 1/2" (12,7 mm)
<b>m</b>	<b>kg (lbs)</b>	3,1 (6.9)	1,9 (4.2)
<b>M<sub>max.</sub></b>	<b>Nm (in-lbs)</b>	600 (5310)	400 (3540)
<b>a<sub>h</sub> / K<sub>h</sub></b>	<b>m/s<sup>2</sup></b>	5,9 / 1,5	12,0 / 1,5
<b>L<sub>pA</sub> / K<sub>pA</sub></b>	<b>dB(A)</b>	96 / 3	100 / 3
<b>L<sub>WA</sub> / K<sub>WA</sub></b>	<b>dB(A)</b>	107 / 3	111 / 3


 \*2) 2014/30/EU, 2006/42/EC, 2011/65/EU  
 \*3) EN 60745-1:2009+A11:2010, EN 60745-2-2:2010, EN 50581:2012

2017-10-10, Bernd Fleischmann  
 Direktor Produktentstehung & Qualität (Vice President Product Engineering & Quality)  
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*ppa. B.F.*

**(A)**



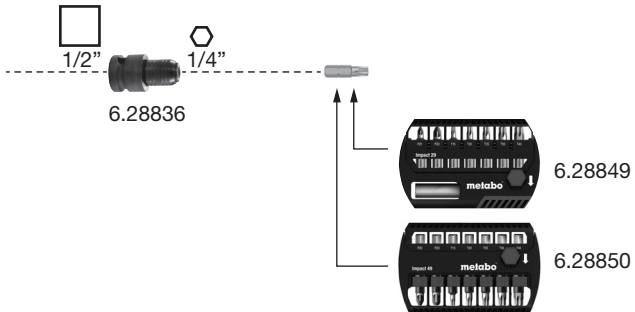
ASC 15, ASC 30, ASC 30-36, SC 60 Plus, ASC Ultra, etc.

**(B)**



18 V	3,0 Ah	6.25594
18 V	4,0 Ah	6.25591
18 V	5,2 Ah	6.25592
...	...	etc.

**(C)**



**(D)**



6.28831



6.28832

# Original instructions

## 1. Declaration of Conformity

We declare under our sole responsibility: These cordless impact drivers, identified by type and serial number \*1), comply with all relevant requirements of the directives \*2) and standards \*3). Technical file at \*4) - see page 3.

## 2. Specified Use

The impact screwdriver is suitable for driving in and removing screws.

The user bears sole responsibility for any damage caused by improper use.

Generally accepted accident prevention regulations and the enclosed safety information must be observed.

## 3. General safety instructions



For your own protection and for the protection of your power tool, pay attention to all parts of the text that are marked with this symbol!



**WARNING** – Reading the operating instructions will reduce the risk of injury.



**WARNING Read all safety warnings and instructions.** Failure to follow all safety warnings and instructions may result in electric shock, fire and/or serious injury.

**Keep all safety instructions and information for future reference.**

Pass on your electrical tool only together with these documents.

## 4. Special Safety Instructions

**Hold power tool by insulated gripping surfaces, when performing an operation where the cutting fastener may contact hidden wiring.** Fasteners contacting a "live" wire, may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Remove the battery pack from the machine before any adjustment or maintenance is carried out.

Before fitting the battery pack, make sure that the machine is switched off.

Ensure that the spot where you wish to work is free of **power cables, gas lines or water pipes** (e.g. using a metal detector).



Protect battery packs from water and moisture!



Do not expose battery packs to naked flame!

Do not use faulty or deformed battery packs!  
Do not open battery packs!

Do not touch or short-circuit battery packs!



Slightly acidic, flammable fluid may leak from defective li-ion battery packs!



If battery fluid leaks out and comes into contact with your skin, rinse immediately with plenty of water. If battery fluid leaks out and comes into contact with your eyes, wash them with clean water and seek medical attention immediately.

Only screwdriving bits suitable for the impact screwdriver must be used.

Take care when driving in long screws - risk of slipping.

Mount the machine on the screw only when it is switched off.

**Wear ear protectors when working for long periods of time.** High noise levels over a prolonged period of time may affect your hearing.

Remove the battery pack from the machine before any adjustments, conversions or servicing are performed.

LED lights (4): Do not observe the LED radiation directly with optical instruments.

**Reducing dust exposure:**



**WARNING** - Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

This also applies to dust from other materials such as some timber types (like oak or beech dust), metals, asbestos. Other known diseases are e.g. allergic reactions, respiratory diseases. Do not let dust enter the body.

Observe the relevant guidelines and national regulations for your material, staff, application and place of application (e.g. occupational health and safety regulations, disposal).

Collect the particles generated at the source, avoid deposits in the surrounding area.

Use suitable accessories for special work. In this way, fewer particles enter the environment in an uncontrolled manner.

Use a suitable extraction unit.

- Reduce dust exposure with the following measures:
- do not direct the escaping particles and the exhaust air stream at yourself or nearby persons or on dust deposits,
  - use an extraction unit and/or air purifiers,
  - ensure good ventilation of the workplace and keep clean using a vacuum cleaner. Sweeping or blowing stirs up dust.
  - Vacuum or wash the protective clothing. Do not blow, beat or brush.


## 5. Overview

See page 2.

- 1 Square attachment for 1/2" tools
- 2 Rotation selector switch / Transporting safety device
- 3 Trigger
- 4 LED light  
For working on dimly lit areas. The LED lights light up when the machine is switched on.
- 5 Setting wheel for preselecting rotational speed and tightening torque\*
- 6 Battery pack
- 7 Battery pack release button
- 8 Capacity indicator button
- 9 Capacity and signal indicator
- 10 Belt hook (attach as shown) \*

\* depending on the features / model

## 6. Initial Operation/Setting

 Remove the battery pack from the machine before any adjustment or maintenance is carried out. Before fitting the battery pack, make sure that the machine is switched off.

### 6.1 Battery pack

Charge the battery pack before use (5).

If performance diminishes, recharge the battery pack.

The ideal storage temperature is between 10°C and 30°C.

"Li-Power" li-ion battery packs have a capacity and signal indicator: (9)

- Press the button (8), the LEDs indicate the charge level.
- If one LED is flashing, the battery pack is almost flat and must be recharged.


#### Removal:

Press the battery pack release (7) button and pull the battery pack (5) forwards.

#### Inserting:

Slide in the battery pack (5) until it engages.

### 6.2 Setting the direction of rotation, engaging the transporting safety device (switch-on lock)

 Do not actuate the rotation selector switch or engage the transportation lock (2) unless the motor has stopped completely!

Actuate the rotation selector switch / Engage the transportation lock (2)

**R** = Right rotation set  
(insert screws)

**L** = Left rotation set  
(remove screws)

**0** = Central position: transportation lock setting (switch-on lock)

### 6.3 Switching on and off

**Switching on:** press the trigger switch (3).

**Switching off:** release the trigger switch (3).

### 6.4 Speed / Tightening torque

The speed and tightening torque are connected directly. The lower the speed, the lower the tightening torque.

The speed and tightening torque can be adjusted steplessly by pressing the trigger (3) firmly or lightly, thus adapting to working conditions.


You can use the setting wheel (5) on the SSW 18 LTX 400 BL to adjust the rotational speed and tightening torque (12 stages).


**Recommendation:** determine the correct setting by carrying out trial screwdriving.

### 6.5 Changing SSW... screwdriving bits

**Inserting screwdriving bit:** Fit the tool on the square attachment (1) until the limit stop.

**Removing screwdriving bit:** Pull the tool from the square attachment (1).

 The screwdriving bit used must match the screw.

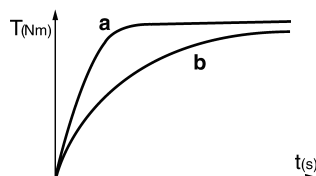
 Damaged screwdriving bits must not be used.

## 7. Use

Mount the machine on the screw, ensuring it is aligned straight.

The screwdriving process has two elements: **inserting the screw** and **tightening the screw with the percussion mechanism**.

The tightening torque depends on the impact duration.



With an impact duration of approx. 5 seconds, the maximum tightening torque has been reached.

The torque curve depends on the type of application:

With a hard screwdriving application (screwcouplings in hard material such as metal), maximum tightening torque is already reached after a short impact duration (a).

With a soft screwdriving application (screwcouplings in soft material such as wood), a longer impact duration (b) is required.

Recommendation: determine the correct impact duration by carrying out trial screwdriving.

**Caution!** With **small screws**, maximum torque can be reached even below an impact duration of 0.5 seconds.

- This is why the duration of the screwdriving process must be monitored exactly.
- Adjust the tightening torque by pressing firmly or lightly on the trigger (3), ensuring that the screw is not damaged or that the screw head does not tear off.

## 8. Accessories

Use only genuine Metabo accessories.


Use only accessories that fulfil the requirements and specifications listed in these operating instructions.

See page 4.

- A Chargers
- B Battery packs with different capacity Only use battery packs with the appropriate voltage for your power tool.
- C Screwdriving bits
- D 1/2" tool

For a complete range of accessories, see [www.metabo.com](http://www.metabo.com) or the catalogue.

## 9. Repairs

 Repairs to electrical tools must be carried out by qualified electricians ONLY!

If you have Metabo electrical tools that require repairs, please contact your Metabo service centre. For addresses see [www.metabo.com](http://www.metabo.com).

You can download spare parts lists from [www.metabo.com](http://www.metabo.com).

## 10. Environmental Protection

Observe national regulations on environmentally compatible disposal and on the recycling of disused machines, packaging and accessories.

Battery packs must not be disposed of with regular waste. Return faulty or used battery packs to your Metabo dealer!

Do not allow battery packs to come into contact with water!



Only for EU countries: Never dispose of power tools in your household waste! In accordance with European Guideline 2002/96/EC on used electronic and electric equipment and its implementation in national legal systems, used power tools must be collected separately and handed in for environmentally compatible recycling. Before disposal, discharge the battery pack in the power tool. Prevent the contacts from short-circuiting (e. g. by protecting them with adhesive tape).

## 11. Technical specifications

Explanatory notes on the specifications on page 3.

Changes due to technological progress reserved.

U	= Voltage of battery pack
$n_0$	= No-load speed
s	= Impact frequency
H	= Machine tool attachment
m	= Weight (with smallest battery pack)
$M_{max}$	= max. tightening torque

Measured values determined in conformity with EN 60745.

=== Direct current

The technical specifications quoted are subject to tolerances (in compliance with the relevant valid standards).



### Emission values

Using these values, you can estimate the emissions from this power tool and compare these with the values emitted by other power tools. The actual values may be higher or lower, depending on the particular application and the condition of the tool or power tool. In estimating the values, you should also include work breaks and periods of low use. Based on the estimated emission values, specify protective measures for the user - for example, any organisational steps that must be put in place.

Vibration total value (vector sum of three directions) determined in accordance with EN 60745:

$a_h$  = Vibration emission value (screwdriving with impact)

$K_h$  = Uncertainty (vibration)

Typical A-effective perceived sound levels::

$L_{pA}$  = Sound pressure level

$L_{WA}$  = Acoustic power level

$K_{pA}$ ,  $K_{WA}$  = Uncertainty (noise level)



### Wear ear protectors!





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