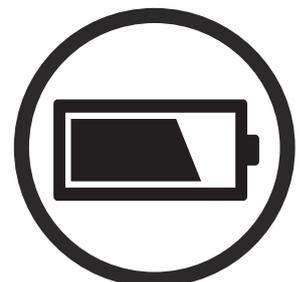


Workshop manual

**BLi100, BLi200, BLi200X, BLi300**



English

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# 1 Introduction

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## 1.1 Document description

This manual gives a full description of how to do maintenance and repair on the product. It also gives safety instructions that the personnel must obey.

## 1.2 Target group

This manual is for personnel with a general knowledge of how to do repair and do servicing. All personnel that do repair or do servicing on the product must read and understand the manual.

## 1.3 Revisions

Changes to the product can cause changes to the maintenance work and spare parts. Separate information is sent out for each change.

Read the manual together with all received information about changes to maintenance and spare parts for the product.

## 1.4 Safety

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**WARNING:** All personnel that repair or do servicing on the product must read and understand the safety instructions in this workshop manual.

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## 1.5 Servicing tools

The manual gives information about necessary servicing tools. Always use original tools from Husqvarna.

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## 2 Safety

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### 2.1 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



**WARNING:** Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



**CAUTION:** Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

**Note:** Used to give more information that is necessary in a given situation.

### 2.2 General safety instructions



**WARNING:** Apply a new warning label if a warning symbol on the product is damaged or missing.

### 2.3 Important safety instructions



**WARNING:** Read all safety warnings and all instructions. Failure to obey the warnings and instructions may result in electrical shock, fire and/or serious injury.

**Note:** Save all warnings and instructions.

- Use the BLi100, BLi200, BLi200X, BLi300 batteries as a power supply for the related Husqvarna products only. To prevent injury, do not use the battery as a power supply for other devices.
- Keep the battery away from sunlight, heat or open flame. The battery can cause burns and/or chemical burns.
- Do not cause mechanical shock to the battery.
- Keep the battery away from children.
- Keep the battery clean and dry.
- Do not keep the battery in the battery charger when it is fully charged.
- Do not short circuit the battery.

### 2.4 To prepare for battery repair work



**WARNING:** The battery cells contain much energy. Use tools with electrical insulation.



**WARNING:** Do not touch a battery that have a leak or if there has been explosions.

1. Make sure that the surface on the workbench is made from a nonconductive and nonflammable material.
2. Remove all metal objects from the work area.
3. Remove all metal objects from your hands and wrists.
4. Put a battery box, a shovel and a heat resistant glove adjacent to the workbench.



**WARNING:** Use the shovel and the heat resistant glove to move the battery to the battery box, if the battery get hot.

5. Put on protective glasses and rubber gloves.

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## 3 Symbols on the product

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Be careful and use the product correctly.  
This product can cause serious injury or death to the operator or others.



Read the operator's manual carefully and make sure that you understand the instructions before use.



Do not use the product in rain.



The product agrees with the applicable EC directives.



Recycle the product at an applicable disposal location for electrical and electronic equipment.



The product or package of the product is not domestic waste.

yyyywwxxxx

The rating plate shows serial number. **yyyy** is the production year, **ww** is the production week and **xxxx** is the sequential number.

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**Note:** Other symbols/decals on the product refer to certification requirements for some commercial areas.

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## 4 To charge the battery

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Charge the battery before the first time of operation. A new battery is charged 30%. Push the battery indicator button to get information of the state of charge of the battery.



**CAUTION:** Only charge the battery when the ambient temperature is between 5°C (41°F) and 40°C (114°F).

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**CAUTION:** Use the battery only when the ambient temperature is between -10°C (14°F) and 40°C (104°F).

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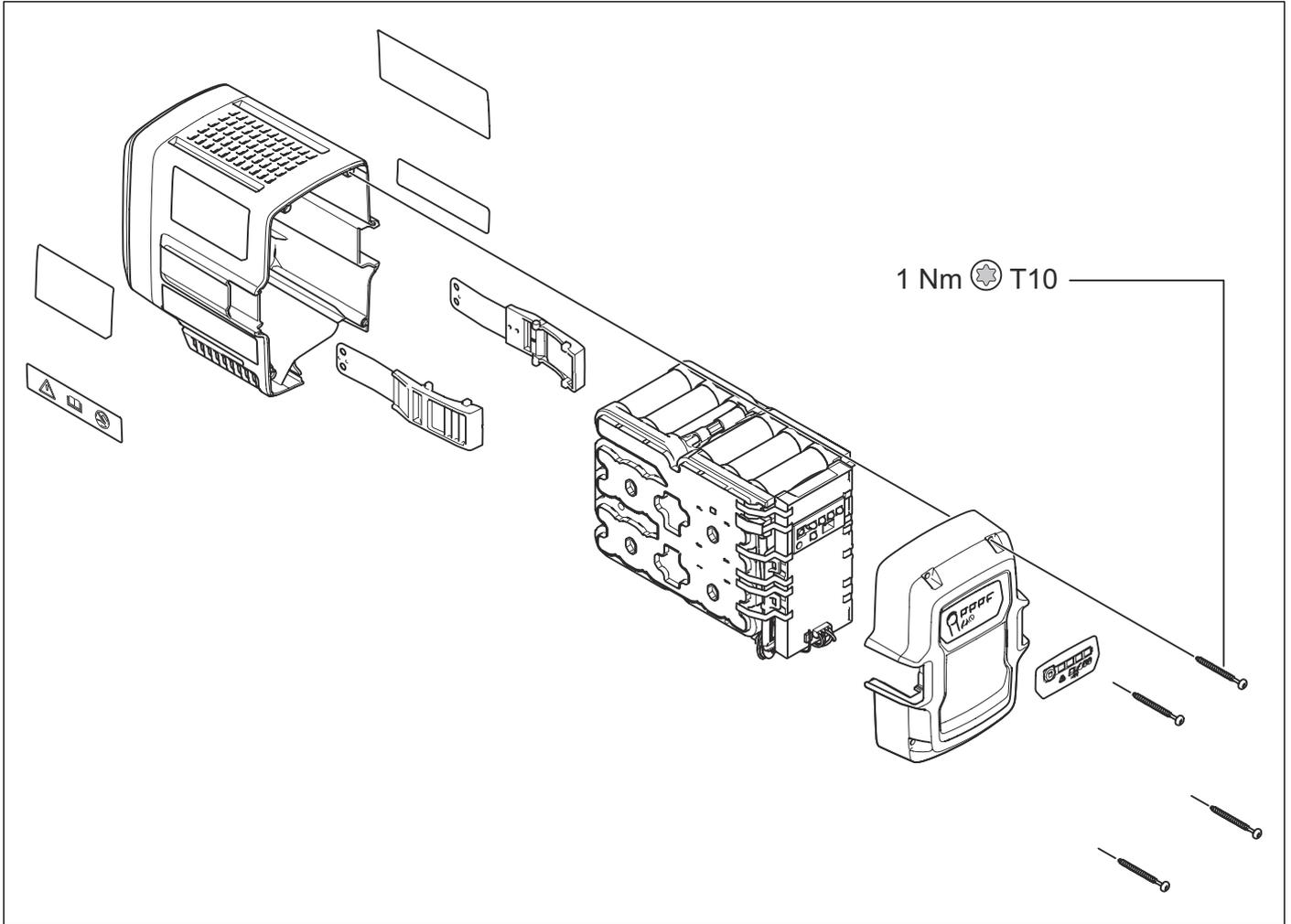
**Note:** The battery will not charge if the battery temperature is more than 60°C (140°F).

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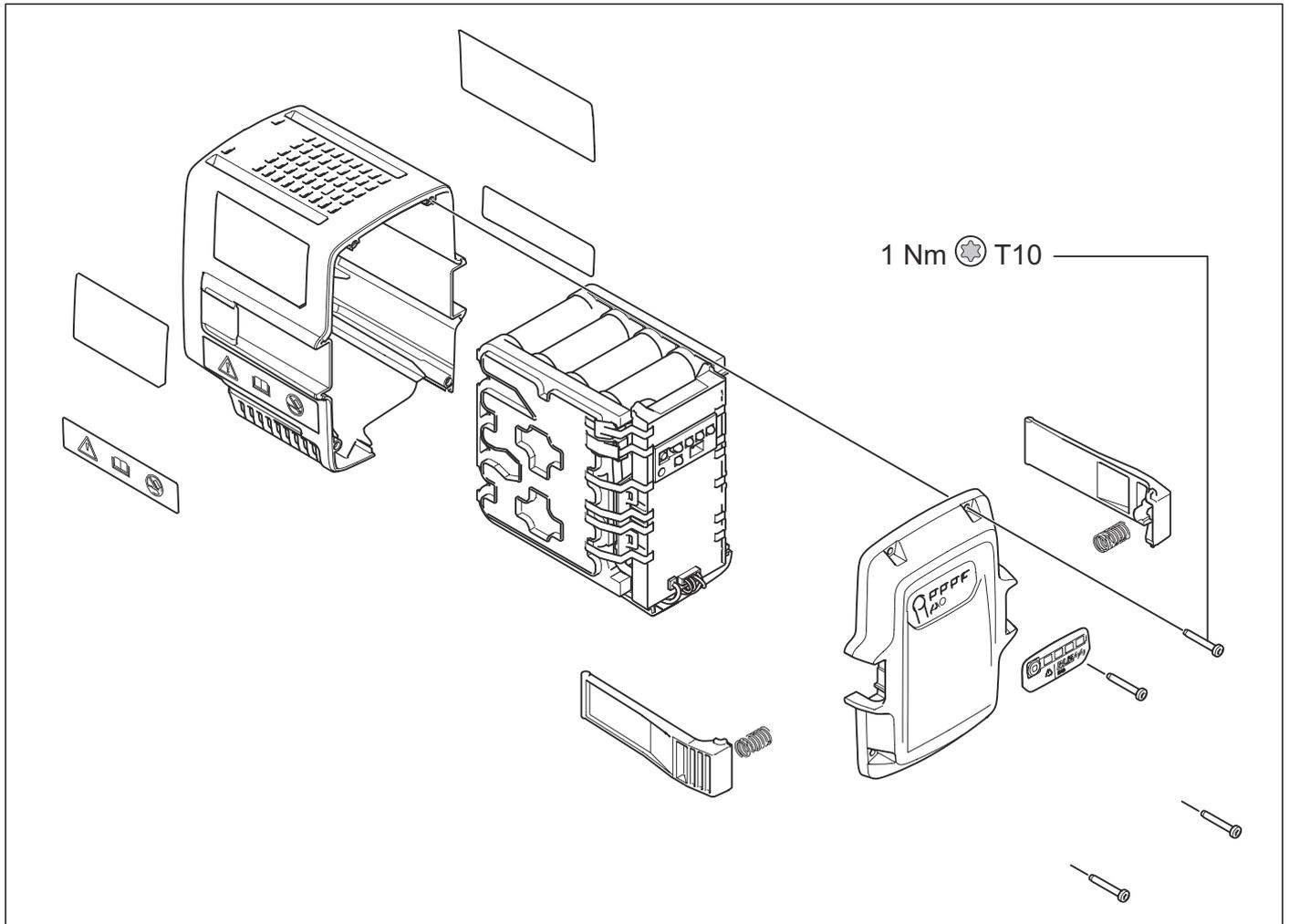
1. Put the battery in the battery charger. When the charging LED on the battery charger comes on, the battery is connected correctly to the battery charger.
2. The battery is fully charged when all LEDs on the LED indicator on the battery are on.
3. Remove the battery from the battery charger.

## 5 Servicing data

### 5.1 Servicing data BLi300



## 5.2 Servicing data BLi100, BLi200, BLi200X

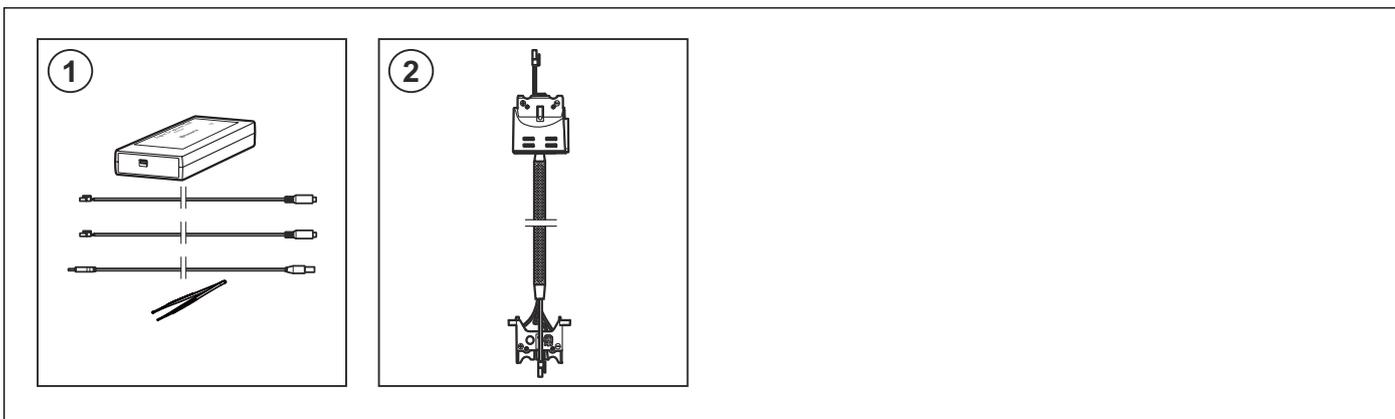


# 6 Servicing tools

## 6.1 Servicing tools



**WARNING:** Risk of electric shock. Use tools with electric insulation.



Pos.	Description	Used for	Order No.
1	Diagnostic Tool Kit	Diagnostic examination and troubleshooting	583 89 71-01
2	Adapter cable for battery products	Diagnostic examination of battery products	581 19 23-01

## 6.2 Diagnostic tools

### 6.2.1 Common service tool

The common service tool (CST) is used with a computer (not included) for Husqvarna products.

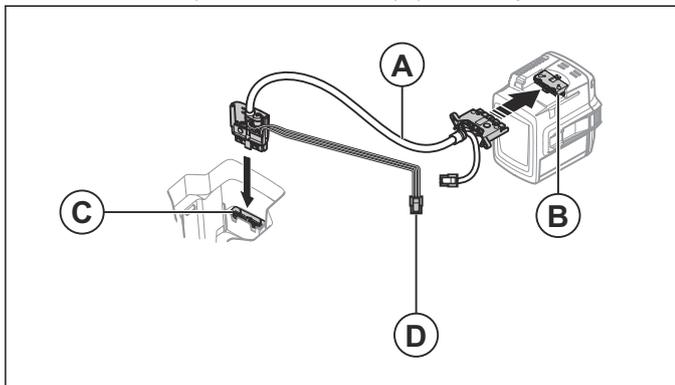
The common service tool transmits data from the product and battery to the computer, for example product ID.

### 6.2.2 To connect the common service tool (CST)



**CAUTION:** If you install firmware to a new spare part, make sure that you know the Husqvarna identification number (HID). The identification number is found on the spare part.

1. Remove the battery from the product.
2. Connect the adapter cable (A) to the battery (B) and to the battery slot connector (C) on the product.



3. Make sure that the product is in operation mode.
4. Start the common service tool (CST) on the computer.
5. Connect the cable (D) to the computer.
6. Obey the instructions on the common service tool (CST) and in the related chapter in this manual.



**CAUTION:** Do not disconnect the product until the update is completed.



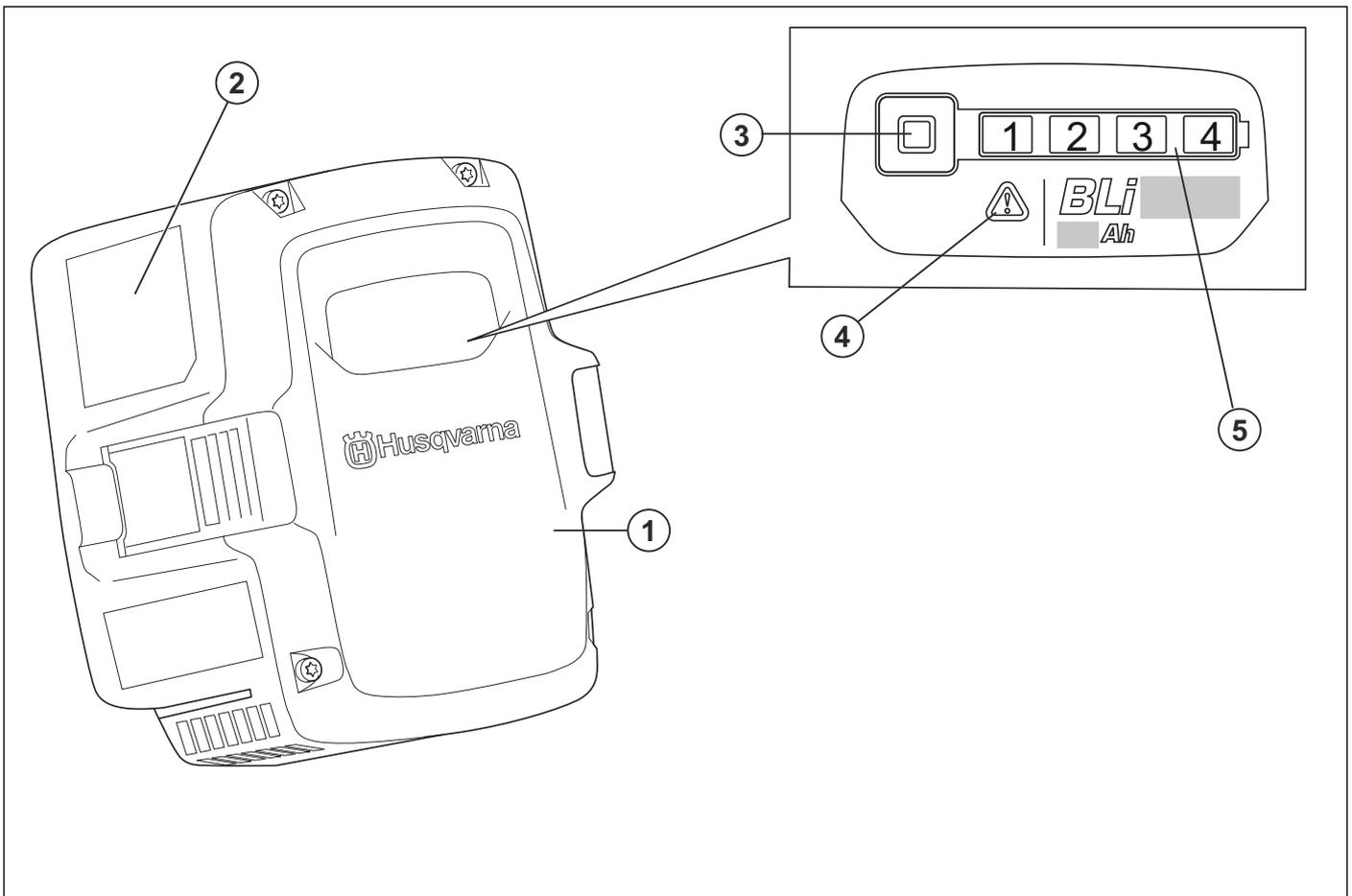
**WARNING:** Do not push the power trigger. The motor can operate when the product is in servicing mode.

### 6.2.3 To do troubleshooting of the common service tool

If there is no signal to the common service tool when it is connected to the product, do the procedure that follows.

1. Make sure that the connectors on the battery and on the product are clean and not damaged. Replace the battery or control unit on the product if there is damage.
2. Make sure that the cable to the common service tool is clean and not damaged. Replace the cable if there is damage.
3. Restart the computer.
4. Install the software again.

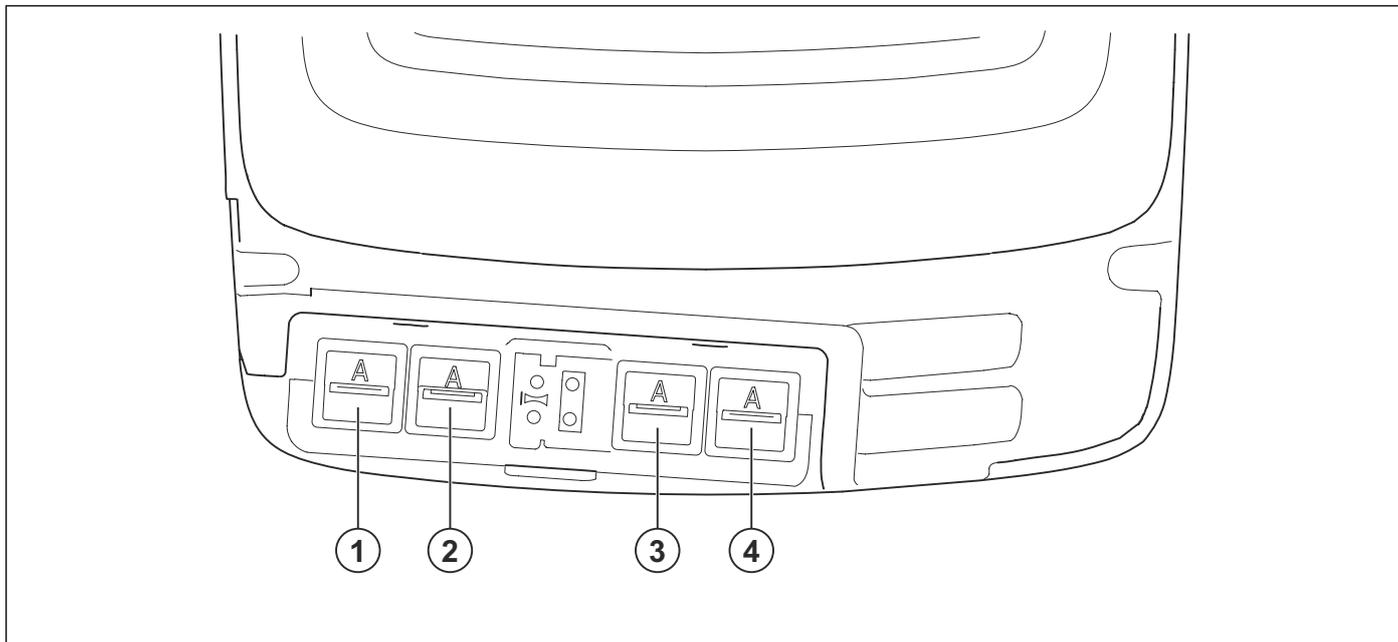
## 7 Product overview



1. Battery
2. Type plate
3. Battery indicator button
4. LED indicator for errors
5. LED indicator for the state of charge (SoC)

## 8 Repair instructions

### 8.1 Battery terminals



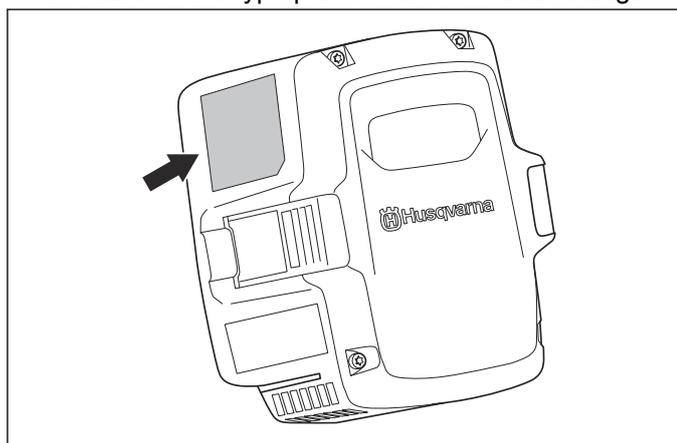
1. Battery + (Positive battery voltage), Red
2. Shut down (SD-signal), White
3. 1-wire (Battery 1-wire communication), Gray
4. Battery - (Negative battery voltage), Black

### 8.2 To replace the casing BLI300

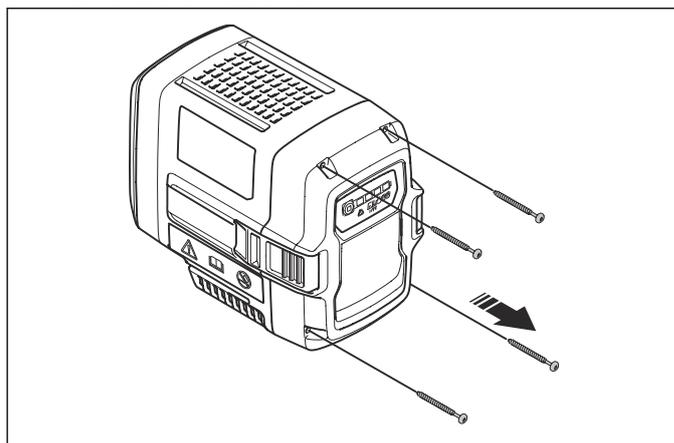


**WARNING:** Risk of electric shock. Use tools with electric insulation.

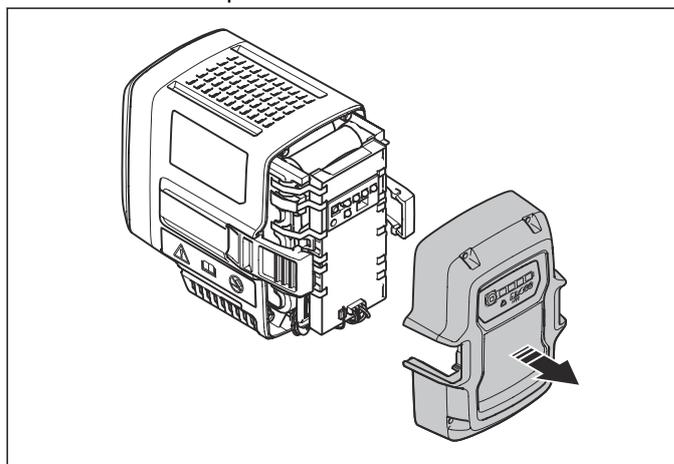
1. Prepare the work area for battery repair work. Refer to *To prepare for battery repair work on page 4.*
2. Make a note of the serial number. The serial number is found on the type plate on the removed casing.



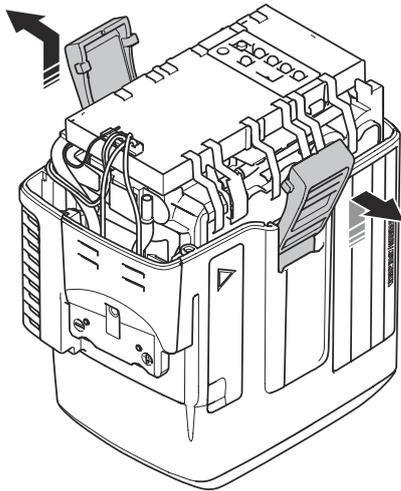
3. Remove the 4 screws.



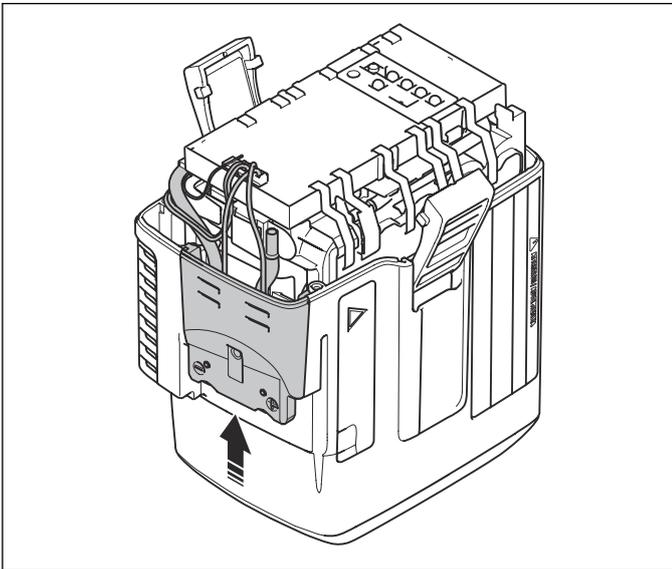
4. Put the screws at a safe distance from the battery.
5. Remove the top cover.



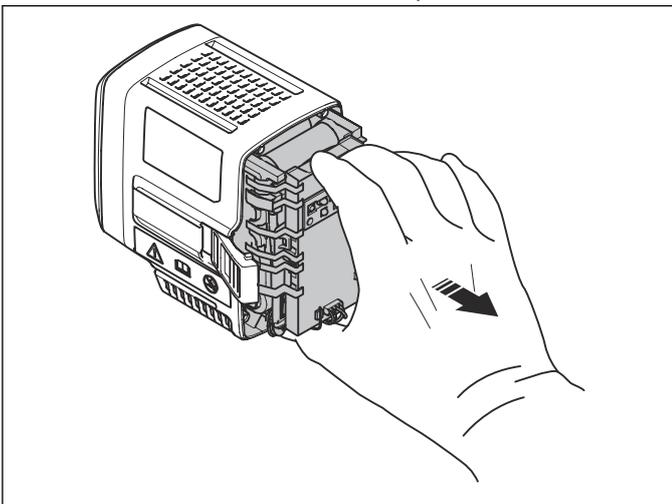
6. Push the clips away from the battery pack.



7. Push out the battery connector from the slot.

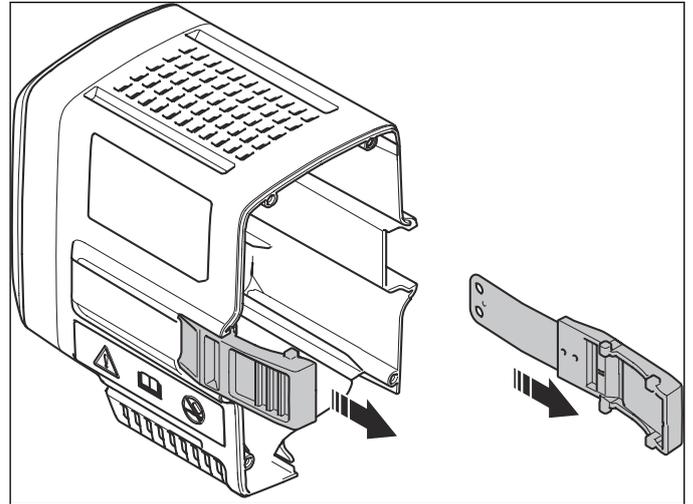


8. Remove the battery pack. Hold the battery pack at the ends of the circuit board to prevent short circuit.



**WARNING:** Do not touch the circuits on the circuit board.

9. Remove the clips.



10. Replace all damaged parts.

11. Install the new casing in the opposite sequence.

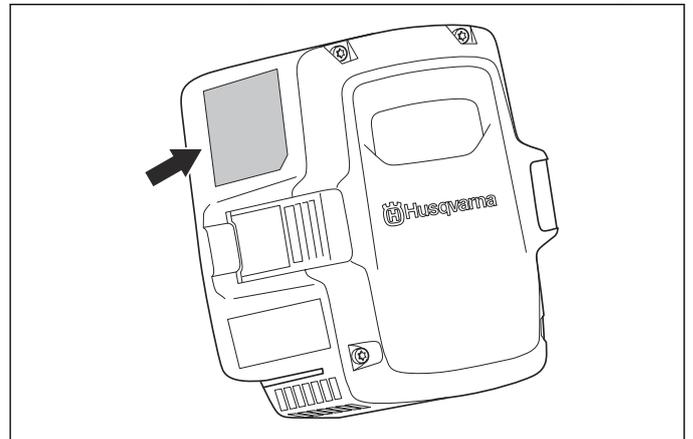
**Note:** Push the top cover in the direction of the casing when you install the screws.

### 8.3 To replace the casing BLi100, BLi200, BLi200X

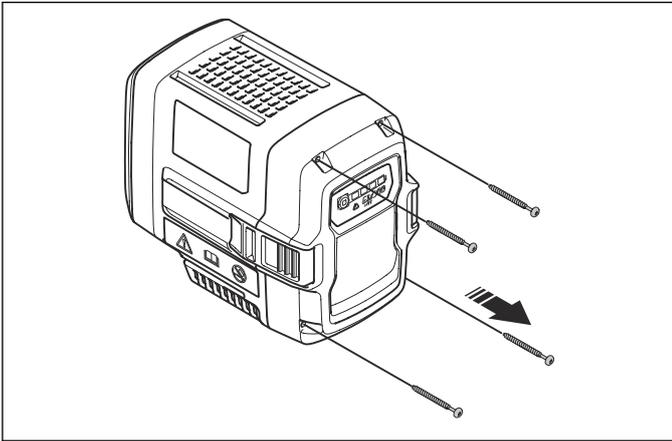


**WARNING:** Risk of electric shock. Use tools with electric insulation.

1. Prepare the work area for battery repair work. Refer to *To prepare for battery repair work on page 4*.
2. Make a note of the serial number. The serial number is found on the type plate on the removed casing.

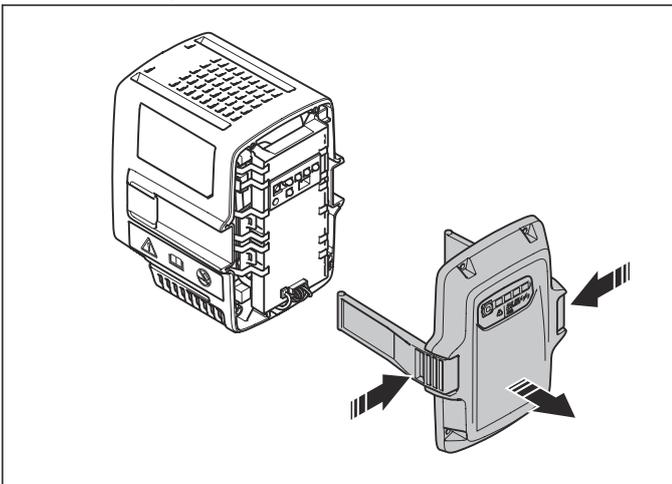


3. Remove the 4 screws.



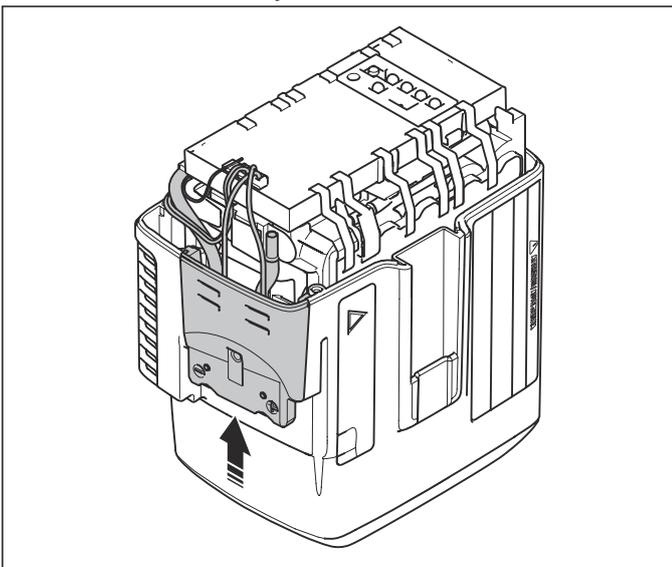
4. Put the screws at a safe distance from the battery.

5. Push and hold the clips and remove the top cover and the clips.

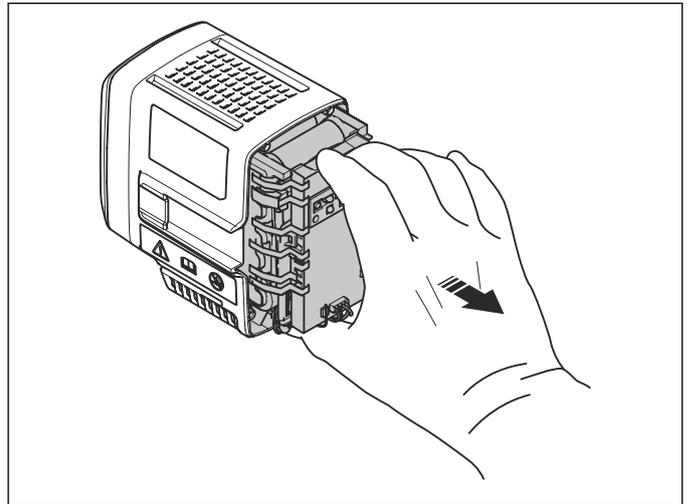


**WARNING:** The springs in the top cover can cause a short circuit if the springs fall from the top cover.

6. Push out the battery connector from the slot.



7. Remove the battery pack. Hold the battery pack at the ends of the circuit board to prevent short circuit.



**WARNING:** Do not touch the circuits on the circuit board.

8. Replace all damaged parts.

9. Install the new casing in the opposite sequence.

**Note:** Push the top cover in the direction of the casing when you install the screws.

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## 9 Troubleshooting

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### 9.1 Troubleshooting

Symptoms		Cause	Solution
	LED indicator for errors flashes.	Temporary error.	The BMS have detected a temperature, voltage or current outside of the optimal limits. The error LED flashes until the conditions return to normal.  Charge the battery.
	LED indicator for errors have a constant light.	Permanent error.	Do a check of the tool and the charger that where used together with the battery before the error occurred.

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## 10 Technical data

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### 10.1 Technical data

	<b>BLi100</b>	<b>BLi200</b>	<b>BLi200X</b>	<b>BLi300</b>
Capacity, Ah	2.6	5.2	5.2	9.4
Voltage, V	36	36	36	36
Battery output power, Wh	93.6	180	180	337
Weight, g	950	1396	1396	1970
Dimensions, mm (WxLxH)	98x132x115.6	98x132x115.6	98x132x115.6	98x155x115.6



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