USER MANUAL
BATTERY REPLACEMENT
RCB10+

About REAC

REAC is passionate about helping people in their daily lives, and by providing a wide range of advanced power solutions suitable for many different applications, we hope to make people's lives a little bit easier. Our aim is to offer our clients an excellent service, backed up by experience and know-how in the application of advanced motion systems.

REAC's power solutions contain compact and strong electrical actuators, lift and tilt systems, control boxes and hand controls. We know that our customers have different needs and therefore our products are designed to be customized according to their application’s specific requirements.

We are confident to say that we can solve a wide range of motion problems, so please challenge us!

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1 Introduction

1.1 Documentation

This manual describes how to replace the batteries in your REAC RCB10 Control Box.

Next to this manual the following documentation is available:

- RCB10+ data sheet
- RHC10 data sheet
- RCB10+ user manual

2 Symbols

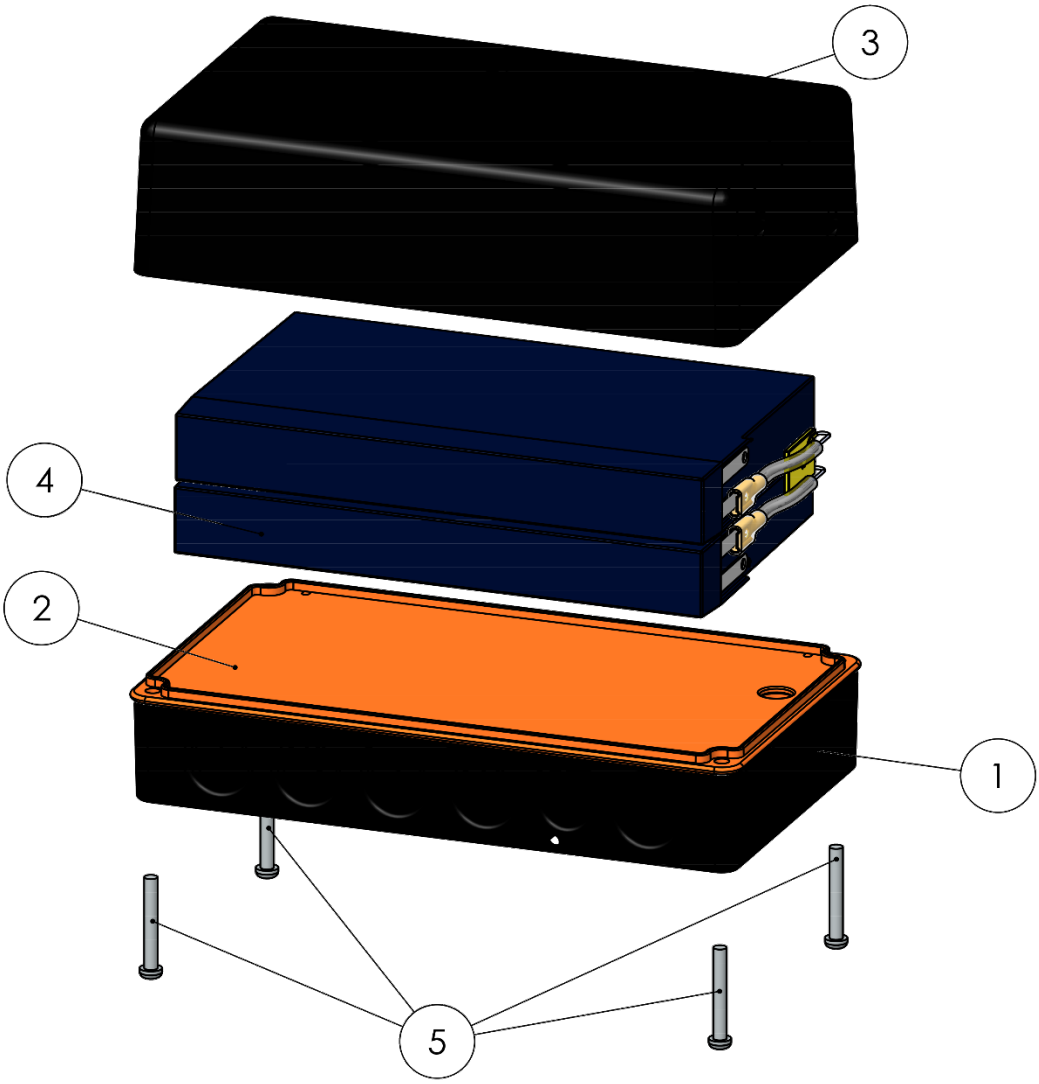
The following symbols will be used in this document:

Failure to comply with these instructions may result in accidents involving personal injury.

Failing to follow these instructions can result in the product being damaged or destroyed.

Useful tips, recommendations and information for efficient, trouble-free use.

3 RCB10+ overview



	Description
1	Bottom cap
2	Separating plate
3	Top cap
4	Battery-set with PTC
5	Fastening screws

4 Battery information

4.1 Prior to first use of the batteries

Make sure the batteries are charged 24 hours prior first use of the batteries. This to ensure full charge and to prolong the lifetime of the batteries.

4.2 Maintenance of batteries

For an optimum lifetime, the product must be charged as often as possible. The batteries are fully charged in six hours. During storage, the battery must be charged at least every 6 months. If omitting regular charging the batteries will be damaged due to self-discharge. It is recommended to test the battery function at least once every year. How often the batteries are to be replaced dependent on the pattern of use. Frequent deep discharge reduces the battery life.

4.3 Warranty and battery life

REAC warranty is only valid if the products have been used and maintained correctly (per specification) and are not exposed to violent treatment. All REAC products are designed to have an optimum lifetime, but the expected lifetime in a specific application is very dependent on how the products are used and maintained.

5 Battery replacement

Before ANY further actions. Make sure all plugs are disconnected from the RCB10+. Especially care should be taken to ensure that that charger is not connected to the RCB10+.

Only authorized and properly trained personnel should change the battery in a RCB10+. If battery is changed improperly there is risk for malfunction. Only use REAC replacement batteries. The batteries are a set. Mixing batteries between sets may lead to severely reduced battery life.

5.1 Tools needed

- Torx T15 screwdriver is needed to unscrew/screw fastening screws.
- Small sharp object (needle) to unhook the locking mechanism on the battery plugs.

5.2 Procedure

Make sure charger is disconnected form the control-box before performing this procedure. If charger is connected parts inside the control-box may have dangerous voltages.

NEVER allow any of your tools and/or battery cables to contact BOTH battery terminals at the same time. An electrical short may occur and serious personal injury or damage may occur.

make sure all the jack plugs are disconnected - otherwise failure or damage of associated equipment may result.

We strongly recommend that battery installation and replacement ALWAYS be done by a qualified technician

The control box uses a sealed lead battery which must be recycled or disposed of properly.

1. Turn the control-box upside down so you are facing the REAC label. Unscrew the four fastening screws ⑤. Be sure to collect all four screws that should now be loose.
2. Turn the control-box around. Remove top cap ③. Make sure separating plate ② stays on the lower cap ①. Be careful not to damage the rubber sealing on the separating plate.
3. Detach the battery plugs. Start with the outmost black cable and then the inner red. Be careful not to damage the locking mechanism in the plugs (use a needle to unhook the lock see figure 1).
4. Inspect the rubber sealing for damage. If its damaged the separating plate ② must be replaced.
5. Replace the battery pack ④, same placement as the old battery. Make sure the plus pole is nearest the separating plate.
6. Reattach the battery plugs. Start with the red that should be connected to plus pole on the battery nearest the separating plate. The plus pole should be nearest the separating plate.
7. Finally attach the black battery plug. This should be connected to minus pole on the outmost battery.

8. Make sure the battery is centered on the separating plate ②. Make sure cables are folded as near as possible to the batteries.
9. Mount the top cap ③ back on its place. Be careful not to damage the rubber seal or to squeeze any cables between the top cap ③ and the separating plate ②. The top cap should insert with little force and stay attached even without force (nothing pushing the parts apart).
10. Turn the control-box around and re-screw the fastening screws ⑤.

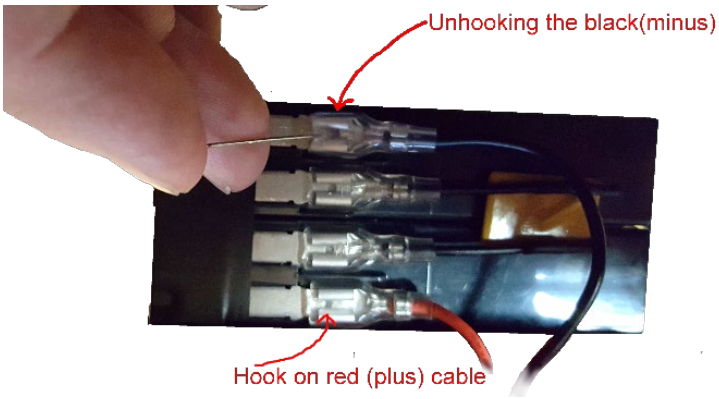


Figure 1. Unhooking the lock on black cable (minus) using a needle

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