

Quick installation guide

Installation of MT BCB 25/20 with installation cable set for vehicles with central electric station (Installation type 3)

For more installation types, please see operating manual!
Please carefully read the installation instructions and the enclosed operating manual entirely before starting up!

1 Unpacking

The following items should be included with this product:

- BCB25/20



- Installation cable set with high load relay (NC 12V/100A), distribution terminal for charging wiring incl. 2x ring cable lugs (M5/10 mm²)



- Temperature sensor with cable 3 m



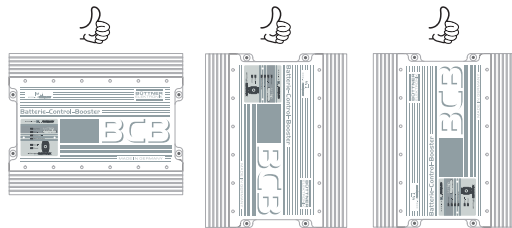
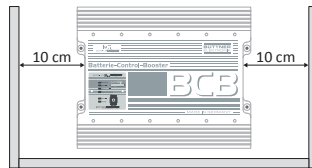
- Extension cable 5 m and adaptor for remote controlling



- This quick installation guide
- Operation manual

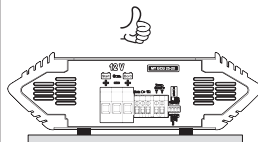
Check the device for mechanical damage after unpacking!
Do not use the device if the housing shows visible damage due to improper transport. Contact your dealer for more information.

2 Mounting

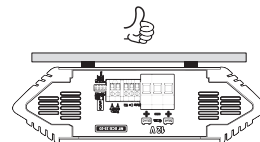


horizontal

vertical

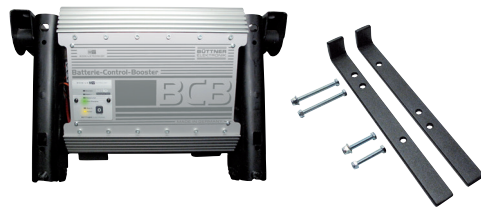


floor mounting



ceiling mounting

Mounting recommendation for Fiat, Citroën, Peugeot (since 2007):
Universal mounting brackets Fiat Ducato



Part no.: MT12000

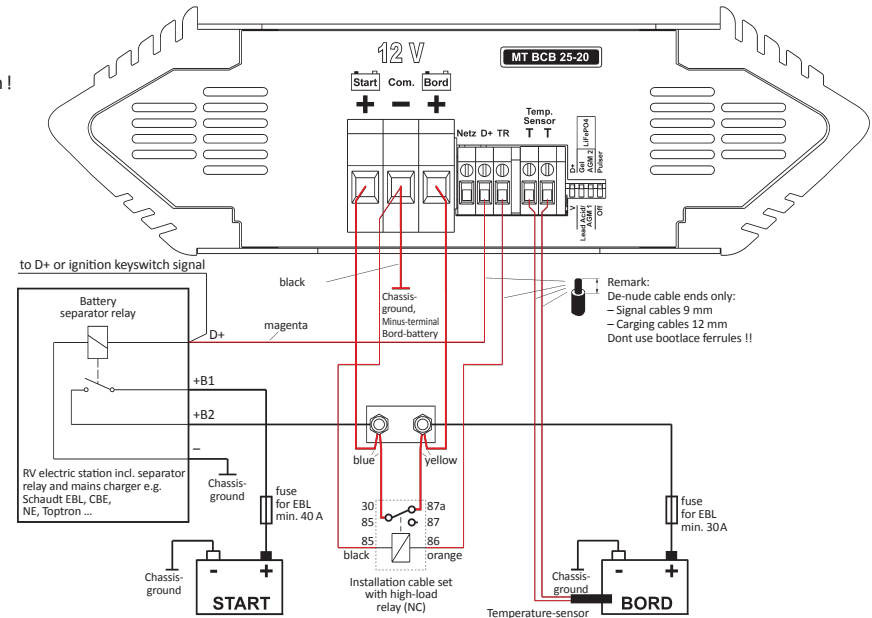


3 Installation

Note:

Disconnect all power sources from the vehicle and battery connections before installation!

Red indicated wiring is part of the installation cable set with high-load relay!



Connections and wiring details:

- Interrupt the charging wiring between the on-board battery and the central electrical station at a suitable point.
- Crimp the enclosed ring cable lugs (M5/10 mm²) with both cable ends, insulate with shrink tubing and fasten them on the distribution terminal according to the color coding in the wiring diagram.
- Fix the distribution terminal at a suitable position
- Connections of the installation cable set on the BCB:
 - Blue marked cable (6 mm²) from the distribution terminal to BCB input **Start +**
 - Yellow marked cable (6 mm²) from the distribution terminal to BCB input **Bord +**
 - Black cable (6 mm²) to negative terminal of board battery and BCB input **COM -**
 - 12V (orange) – and ground cable (black) from the distribution terminal to **TR / COM -**
 - Connect magenta cable to vehicle D+ (eg. from central electric station) and BCB input **D+**
- Connect temperature sensor to BCB connection **T T**:
 - Use the supplied temperature sensor for all lead battery systems and connect the fork cable lug to one of the battery terminals
 - For Büttner Elektronik LiFePO₄ batteries, use the internal sensor and connector on the housing and establish a connection with BCB (see also the instructions for LiFePO₄ batteries, Chap. 9)

Note: De-nude the cable ends before connection (9-12 mm, without bootlace ferrules), insert them into the cage clamp and tighten the screw.
If D+ is not available, ignition keyswitch signal (KI. 15) can also be connected here – see operation manual p. 29!

Setup – see operation manual p. 31-33:

- Select the charging program according to the type of the board battery, table 1.
- Set slide switch V - D + according to installation type to "V", table 2
- Activate pulse unit alternatively, see important information in table 3.
- Adjust the charging current while driving to the battery capacity, table 4