



The following changes have been incorporated in the 1999 software for slim-..be, version 40 and later, compared with the operating instructions leaflet:

1) The unit is no longer suitable for use with a self-neutralising stick (Section 9.2.3). The **slim-45Ce** is ideal for this application.

2) The **slim-45We** boat version is no longer available. In its place we recommend the universal **slim-45Ce** model.

3) The gearbox version **slim-..Ge** is discontinued. A gearbox mode can now be set on the slim-18...50be using the **ips**.

4) For electric helicopters we recommend the special **slim-50He** helicopter controller with fixed stick positions.

If you have a transmitter with variable servo travel you should set it to +/- 100% for the throttle channel, so that the full stick arc is always available for controlling the motor.








If you find a dead band at the end of the stick travel when using the slim-45Ce, you may find that servo travel is set to less than 100% on the transmitter. If on the other hand the motor does not reach full throttle or full brake at the stick end-points, you need to increase servo travel.

For fine control of helicopter motors with the slim-50He we recommend setting up the controller using a 3-point or 5-point throttle curve.

9.3 Supplement to slim-18, -24, -25, -35, -50be






Note: sections 9.2.1, 9.2.2 and 9.2.4 are unchanged and still apply in full.

9.3.1 Setting the unit for a longer soft-start with throttle and brake. Full stick travel (gearbox mode)

- a Receiver off (flight battery disconnected)
 - b Set transmitter stick to centre position (technically: 1.5 +/- 0.15 ms pulse width) 
 - c Switch transmitter on **TXon**
 - d Switch receiver on (connect flight battery) **RXon**
 - e **slim** detects "gearbox mode", confirms with triple beep 
 - b Move transmitter stick quickly to brake position and leave it there for half a second. (technically: pulse width less than 1.35 ms) 
 - e **slim** learns brake position, calculates full-throttle position (brake position + 0.6 ms), confirms with single beep and is now armed! 
 - f The **slim** is completely configured and is ready for use. 
 - g Moving the transmitter stick towards full throttle starts the motor running. The model can be launched. 
- The configured data is stored in the **slim** until you disconnect the flight battery or switch off the BEC system. 

9.4 slim-50He, helicopter-controller, no brake






Fixed stick positions: idle = 1.2 ms, full throttle = 1.8 ms
Excess current and low voltage cause motor to be throttled back, but not shut off. BEC 5 V / 3 A

- a Receiver off (flight battery disconnected)
- b Set transmitter stick to idle position (technically: pulse width less than 1.2 ms) 
- c Switch transmitter on **TXon**
- d Switch receiver on (connect flight battery) **RXon**
- e The **slim** detects idle position, confirms with single beep, and is now armed! 
- f The **slim** is completely configured and is ready for use. 
- g Moving the transmitter stick towards full throttle starts the motor running. 
- h The helicopter can be taken off. 

9.5 slim-45Ce, car and boat controller





Excess current and low voltage cause motor to be throttled back, but not shut off instantly. Splashproof design, BEC 5 V / 1.5 A

9.5.1 Proportional brake / self neutralising stick mode (slim-45Ce - car mode)

- a Receiver off (drive battery disconnected)
- b Set transmitter stick to centre position (neutral) (technically: 1.5 +/- 0.15 ms pulse width) 
- c Switch transmitter on **TXon**
- d Switch receiver on (connect drive battery) **RXon**
- e **slim** learns neutral position, calculates full-throttle position (neutral position + 0.3 ms) and brake position (neutral position - 0.3 ms) confirms with single beep and is now armed! 
- f The **slim** is completely configured, the model can be used. 
- g Moving the transmitter stick towards full throttle starts the motor running. 
- h Moving the transmitter stick towards full brake slows the model proportionally. 

The configured data is stored in the **slim** until you disconnect the drive battery or switch off the BEC system.

9.5.2 Unbraked mode. Full stick travel, non self-neutralising (slim-45Ce - boat mode).

- a Receiver off (drive battery disconnected)
- b Set transmitter stick to centre position (technically: pulse width less than 1.35 ms) 
- c Switch transmitter on **TXon**
- d Switch receiver on (connect drive battery) **RXon**
- e **slim** learns neutral position, calculates full-throttle position (neutral position + 0.6 ms pulse width), confirms with double beep and is now armed! 
- f The **slim** is completely configured, the model can be used. 
- g Moving the transmitter stick towards full throttle starts the motor running. 

The configured data is stored in the **slim** until you disconnect the drive battery or switch off the BEC system.